CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, January 31, 1907.

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CONSTRUCTION NEWS.

PLANS AND SPECIFICATIONS ON FILE.

The following Plans (P.), Specifications (S.) and Bidding Sheets (B. S.) may be seen at the office of The Engineering News Publishing Co., 220 Broadway, New York:

Bids close.	Work.	Place.	On file.	See issue
Feb.				
1	Ordnance	Dover, N. J.	P., S. & B. S.	1-10
*4	Sewers	Cape Girardeau, Mo.	S. & B. S.	1- 3
4	Electric Railway	Bisbee, Ariz.	P., S. & B. S.	12-27
5	Boiler equipment	Phila., Pa.	S. & B. S.	1-17
*8	Spillway	San Francisco, Cal.	P. & S.	1-31
9	Generator set	Philadelphia, Pa.	S.	1-10
*11	Barracks	Fort Hancock, N. J.	P., S. & B. S.	1-24
*13	Gravel road	Camden, N. J.	P., S. & B. S.	1-24
16	Wharves & dredging	Norfolk, Va.	S.	1-24
16	Underground cables	Phila., Pa.	S.	1-31
*18	Machine shop, etc.	Ft. Hancock, N. J.	P., S. & B. S.	1-24
25	Lighting, etc.	Washington, D. C.	S. & B.S.	1-24
Mar.				
*1	Pipe, etc.	Winnipeg, Man.	S. & B. S.	1- 3
18	Sewers	Burlington, Iowa	P., S. & B. S.	1-10

*Work advertised in Engineering News.

LIST OF CONTRACTS PENDING.

LIGHT, HEAT AND POWER PLANTS.

Bids close.	Work.	Place.	On file.	See issue
Jan. 31	Street lighting	Halifax, N. S.	Jan.	17
Feb. 1	Gas works	Richmond, Va.	Dec.	6
	Advertised, Eng. News, Dec. 6.			
Feb. 1	Electric supplies	Dover, N. J.	Jan.	24
Feb. 4	Conduit	Mobile, Ala.	Jan.	24
Feb. 4	Chimney	Jacksonville, Fla.	Jan.	24
Feb. 4	Lighting school	New York, N. Y.	Jan.	31
Feb. 4	Heating & lighting plants	Jackson, Miss.	Jan.	24
Feb. 8	Gas lighting	Buffalo, N. Y.	Jan.	31
Feb. 8	Lighting	East Liverpool, Ohio	Jan.	24
Feb. 10	Lighting plant	Northport, Mich.	Jan.	17
Feb. 15	Lighting	Rock Hill, S. C.	Jan.	17
Feb. 16	Underground cables	Philadelphia, Pa.	Jan.	31
Feb. 18	Power-house	Ft. Hancock, N. J.	Jan.	24
	Advertised, Eng. News, Jan. 24 to Feb. 14.			
Feb. 20	Transmission lines	Chicago, Ill.	Jan.	17
Feb. 25	Lighting, etc.	Washington, D. C.	Jan.	24
Mar. 7	Lighting	Natchez, Miss.	Dec.	20
	Advertised, Eng. News, Dec. 20 and 27.			

BRIDGES.

Jan. 31	Iron bridge	Hallock, Minn.	Jan.	10
Feb. 4	Filling bridge bed	Orwell, Ohio	Jan.	24
Feb. 5	Bridges	Lincoln, Neb.	Jan.	24
Feb. 5	Bridges	Princeton, Ind.	Jan.	24
Feb. 5	Bridgework	Muscatine, Iowa	Jan.	24
Feb. 5	Bridges	Birmingham, Ala.	Jan.	24
Feb. 5	Bridge	Cohoes, N. Y.	Jan.	17
	Advertised, Eng. News, Jan. 17 and 24.			
Feb. 5	Bridges	Salinas, Cal.	Jan.	3
Feb. 5	Bridges	Emmetsburg, Iowa	Jan.	31
Feb. 7	Bridge	Lafayette, La.	Jan.	24
Feb. 8	Bridges	Hammond, Ind.	Jan.	3
Feb. 12	Bridge	Rock Island, Ill.	Jan.	24
Feb. 12	Bridges	Richmond, Ind.	Jan.	31
Feb. 14	Steel bridge	Cullman, Ala.	Jan.	10
	Advertised, Eng. News, Jan. 10.			
Feb. 14	Steel bridge	Waldo, Ohio	Jan.	17
Feb. 15	Bridge	Houston, Tex.	Jan.	31
Feb. 15	Bridge woodwork	Cincinnati, Ohio	Jan.	24
Feb. 18	Bridge	Portersville, Cal.	Jan.	24
Feb. 25	Reflooring	Jefferson, Ohio	Jan.	31
Feb. 25	Bridge	Daggett, Cal.	Jan.	31
Apr. 1	Bridge	Greenwood, Miss.	Jan.	31

BUILDINGS.

Jan. 31	Heating	Crawfordville, Ind.	Dec.	27
Feb. 1	Factory	Kokomo, Ind.	Dec.	6
Feb. 1	Leper station	Hawaii	Jan.	24
	Advertised, Eng. News, Jan. 24 to 31.			
Feb. 4	Building materials	New York, N. Y.	Jan.	24
Feb. 4	Mess hall, etc.	Washington, D. C.	Jan.	24
	Advertised, Eng. News, Jan. 24.			
Feb. 4	Court-house	New Orleans, La.	Dec.	27
Feb. 4	Storehouse	Ft. Monroe, Va.	Jan.	10
	Advertised, Eng. News, Jan. 10 and 17.			
Feb. 5	School	South Bend, Ind.	Jan.	17
Feb. 8	Library	University, N. Dak.	Nov.	15
Feb. 9	School	New Paltz, N. Y.	Jan.	24
Feb. 11	Barracks	Fort Hancock, N. J.	Jan.	10
	Advertised, Eng. News, Jan. 10 to 31.			
Feb. 11	School repairs	New York, N. Y.	Jan.	31
Feb. 18	Building	Jamestown, Va.	Jan.	31
	Advertised, Eng. News, Jan. 31 and Feb. 7.			
Feb. 18	Machine shop, etc.	Ft. Hancock, N. J.	Jan.	24
	Advertised, Eng. News, Jan. 24 to Feb. 14.			
Feb. 25	Metal working machinery, etc.	Fort Hancock, N. J.	Jan.	31
	Advertised, Eng. News, Jan. 31 to Feb. 21.			
Feb. 26	Building stone	Madison, Wis.	Jan.	31
	Advertised, Eng. News, Jan. 31 and Feb. 7.			
Mar. 5	Interior finish	Cleveland, Ohio	Jan.	31
	Advertised, Eng. News, Jan. 31.			
Apr. 15	Plans	Ottawa, Ont.	Dec.	20

WATER SUPPLY AND IRRIGATION.

Feb. 1	Cast-iron pipe	New York, N. Y.	Jan.	24
Feb. 1	Cast-iron pipe	Portland, Ore.	Jan.	24
	Advertised, Eng. News, Jan. 24.			
Feb. 2	Pipe	Washington, D. C.	Jan.	17
	Advertised, Eng. News, Jan. 17 and 24.			
Feb. 2	Artesian well	Asbury Park, N. J.	Jan.	24
	Advertised, Eng. News, Jan. 24 and 31.			
Feb. 4	Boilers	Jacksonville, Fla.	Jan.	17
Feb. 4	Pump	Asbury Park, N. J.	Jan.	24
	Advertised, Eng. News, Jan. 24.			
Feb. 5	Boiler equipment	Philadelphia, Pa.	Jan.	17
Feb. 5	Ditch	Garner, Iowa	Jan.	31
Feb. 6	Cast-iron pipe, etc.	Atlanta, Ga.	Jan.	31
Feb. 6	Mains, etc.	New York, N. Y.	Jan.	31
Feb. 6	Meters	Winnipeg, Man.	Jan.	31
Feb. 7	Cast-iron pipe & castings	Newark, N. J.	Jan.	31
	Advertised, Eng. News, Jan. 31.			
Feb. 7	Boiler plant	Yonkers, N. Y.	Jan.	24
	Advertised, Eng. News, Jan. 24.			
Feb. 7	Cast-iron pipe	Yonkers, N. Y.	Jan.	24
	Advertised, Eng. News, Jan. 24.			
Feb. 9	Cast-iron pipe	Washington, D. C.	Jan.	24
	Advertised, Eng. News, Jan. 24 and 31.			
Feb. 11	Cocks	St. Boniface, P. E. I.	Jan.	31
Feb. 14	Steel tank and tower	Milaca, Minn.	Jan.	24
Feb. 14	Lining reservoir	Fort Wayne, Ind.	Jan.	31
	Advertised, Eng. News, Jan. 31 and Feb. 7.			
Feb. 18	Pumping plant, water pipe, etc.,	Natal (Foreign)	Jan.	24
Feb. 19	Reservoirs, etc.	Oswego, Kan.	Jan.	17
Feb. 20	Water meters	Mexico	Jan.	10
Feb. 20	Ditch, etc.	Mattoon, Ill.	Jan.	31
Feb. 20	Reservoir, etc.	Mt. Pleasant, Mich.	Jan.	31
	Advertised, Eng. News, Jan. 24 and 31.			
Feb. 26	Pressure pipe, etc.	Seattle, Wash.	Jan.	31
Feb. 27	Dike	Crawford, Neb.	Jan.	17
	Advertised, Eng. News, Jan. 17 to Feb. 20.			
Mar. 1	Pipe and specials	Winnipeg, Man.	Dec.	20
	Advertised, Eng. News, Dec. 20 to Feb. 21.			
Mar. 2	Hydrants	Washington, D. C.	Jan.	31
Mar. 5	Canals and ditches	Washington, D. C.	Jan.	10
	Advertised, Eng. News, Jan. 10 to Feb. 14.			
Mar. 12	Canals	Huntley, Mont.	Jan.	17
	Advertised, Eng. News, Jan. 17 to Feb. 7.			

SEWERAGE.

Feb. 1	Sewer	Marion, Ohio	Jan.	17
Feb. 4	Sewer	New York, N. Y.	Jan.	24
Feb. 4	Sewer	Cape Girardeau, Mo.	Dec.	20
	Advertised, Eng. News, Dec. 20 and 27.			
Feb. 4	Sewers	St. Paul, Minn.	Jan.	31
Feb. 4	Drainage system	Cartierville, Que.	Jan.	31
Feb. 4	Grading, etc.	North Braddock, Pa.	Jan.	31
Feb. 5	Sewer	Camden, N. J.	Jan.	31
Feb. 6	Pipe sewer	Des Moines, Iowa	Jan.	31
Feb. 12	Pipe sewers	Crookston, Minn.	Jan.	31
Feb. 14	Sewers	Decatur, Ill.	Jan.	24
	Advertised, Eng. News, Jan. 24 to Feb. 7.			
Feb. 15	Sewer	Wichita, Kan.	Jan.	31
Feb. 16	Sewers	Charleston, W. Va.	Jan.	31
Feb. 16	Sewers	Charleston, W. Va.	Jan.	24
	Advertised, Eng. News, Jan. 24 to Feb. 14.			
Feb. 17	Sewers	Cincinnati, Ohio	Jan.	24
Feb. 18	Sewers, etc.	Atlanta, Ga.	Jan.	31
	Advertised, Eng. News, Jan. 31.			
Feb. 19	Sewers	Cairo, Ill.	Jan.	24
	Advertised, Eng. News, Jan. 24 to Feb. 14.			
Feb. 21	Drains and ditches	Fort Dodge, Iowa	Jan.	24
Feb. 28	Sewers	Orangeburg, S. C.	Jan.	31
	Advertised, Eng. News, Jan. 31 to Feb. 21.			
Mar. 18	Sewers	Burlington, Iowa	Dec.	27
	Advertised, Eng. News, Dec. 27.			

STREETS AND ROADS.

Jan. 31	Paving	Cincinnati, Ohio	Jan.	17
Jan. 31	Grading, etc.	New York, N. Y.	Jan.	24
Feb. 1	Gravel road	Princeton, Ind.	Jan.	17
Feb. 2	Macadamizing	Cincinnati, Ohio	Jan.	24
Feb. 2	Grading, etc.	Norwood, Ohio	Jan.	31
Feb. 2	Grading, etc.	Coitsville, Ohio	Jan.	31
Feb. 4	Gravel roads	Crown Point, Ind.	Jan.	31
Feb. 4	Grading, etc.	Albany, N. Y.	Jan.	31
Feb. 4	Gravel road	Spencer, Ind.	Jan.	24
Feb. 4	Macadam	Knox, Ind.	Jan.	24
Feb. 4	Macadam	Greencastle, Ind.	Jan.	24
Feb. 4	Gravel road	Indianapolis, Ind.	Jan.	24
Feb. 5	Gravel road	Petersburg, Ind.	Jan.	24
Feb. 5	Paving	Winchester, Ind.	Jan.	24
Feb. 5	Macadamizing	Bloomfield, Ind.	Jan.	17
Feb. 5	Macadamizing	Somerville, N. J.	Jan.	10
	Advertised, Eng. News, Jan. 10 to 24.			
Feb. 5	Grading, etc.	Fort Scott, Kan.	Jan.	31
Feb. 6	Paving, etc.	Des Moines, Iowa	Jan.	31
Feb. 6	Gravel road	Logansport, Ind.	Jan.	17
Feb. 6	Paving, grading, etc.	New York, N. Y.	Jan.	24
Feb. 7	Gravel road	Brazil, Ind.	Jan.	24
Feb. 7	Gravel road	Vincennes, Ind.	Jan.	24
Feb. 7	Gravel road	Brazil, Ind.	Jan.	24
Feb. 7	Paving and curbing	Cincinnati, Ohio	Jan.	24
Feb. 7	Brick paving	Denison, Tex.	Jan.	17
Feb. 8	Improving alleys	St. Louis, Mo.	Jan.	24
Feb. 11	Regulating and paving	New York, N. Y.	Jan.	31
Feb. 12	Paving, etc.	St. Louis, Mo.	Jan.	31
Feb. 12	Macadam	Rensselaer, Ind.	Jan.	31
Feb. 12	Macadam curb	Bogota, N. J.	Jan.	10
	Advertised, Eng. News, Jan. 10 to 24.			
Feb. 12	Gravel road	Petersburg, Ind.	Jan.	24
Feb. 13	Gravel road	Camden, N. J.	Jan.	24
	Advertised, Eng. News, Jan. 24 to Feb. 7.			
Feb. 13	Road repair materials	New York, N. Y.	Jan.	31
Feb. 13	Sidewalk grading, etc.	New York, N. Y.	Jan.	31
Feb. 14	Paving, etc.	Neodesha, Kan.	Jan.	31
Feb. 15	Repairing road	Cincinnati, Ohio	Jan.	24
Feb. 15	Paving	Tulsa, Ind. T.	Jan.	24
	Advertised, Eng. News, Jan. 24 to Feb. 14.			
Feb. 16	Macadam	Laporte, Ind.	Jan.	31
Feb. 18	Paving	Newburgh, N. Y.	Jan.	24
	Advertised, Eng. News, Jan. 24 and 31.			
Feb. 19	Paving	New Orleans, La.	Jan.	31
Feb. 25	Grading, etc.	Nonessen, Pa.	Jan.	31
	Advertised, Eng. News, Jan. 31 and Feb. 7.			
Feb. 28	Asphalt	Winnipeg, Man.	Jan.	31
Feb. 28	Paving	Corning, N. Y.	Jan.	24
	Advertised, Eng. News, Jan. 24 to Feb. 7.			
Mar. 1	Improving streets	Corvallis, Ore.	Jan.	10
Mar. 8	Curbs and gutters	Valparaiso, Ind.	Jan.	17

MISCELLANEOUS CONTRACTS.

Jan. 31	Bulkhead	New York, N. Y.	Jan.	10
Jan. 31	Ry. roadbed	Cairo & Thebes Ry.	Jan.	17
	Advertised, Eng. News, Jan. 17 and 24.			
Feb. 1	Steam roller	Holyoke, Mass.	Jan.	17
	Advertised, Eng. News, Jan. 17 and 24.			
Feb. 1	Canal	Servia (Foreign)	Jan.	17
Feb. 1	Ordnance	Dover, N. J.	Jan.	10
Feb. 1	Wooden launches	New York, N. Y.	Jan.	24
Feb. 4	Grading electric railway	Bisbee, Ariz.	Dec.	27
Feb. 4	Dredging	Philadelphia, Pa.	Jan.	31
Feb. 5	Naval supplies	Washington, D. C.	Jan.	3
Feb. 5	Naval supplies	San Francisco, Cal.	Jan.	3
Feb. 5	Tunnel	Boston, Mass.	Jan.	24
Feb. 6	Tug	Washington, D. C.	Jan.	10
Feb. 8	Spillway	San Francisco, Cal.	Jan.	10
	Advertised, Eng. News, Jan. 10 to 31.			
Feb. 11	Railway	Spain (Foreign)	Dec.	6
Feb. 11	Undergrade crossing	Williamsport, Pa.	Jan.	17
	Advertised, Eng. News, Jan. 17.			
Feb. 11	Rock removal	New York, N. Y.	Jan.	31
Feb. 11	Levee	Walnut Hill, Ark.	Jan.	31
Feb. 12	Dredging	New York, N. Y.	Jan.	31
Feb. 12	Lock gate	Chattanooga, Tenn.	Jan.	17
	Advertised, Eng. News, Jan. 17 to 31.			
Feb. 13	Dredging	New York, N. Y.	Jan.	17
	Advertised, Eng. News, Jan. 17 to Feb. 7.			
Feb. 13	Ry. construction	Temiskaming & Northern Ohio Ry.	Jan.	17
Feb. 14	Ry. construction	Trans-Continental Ry.	Jan.	17
Feb. 15	Lock and dam	Mobile, Ala.	Jan.	17
	Advertised, Eng. News, Jan. 17 to Feb. 7.			
Feb. 15	Steam shovel work, etc.	New Orleans, La.	Jan.	31
	Advertised, Eng. News, Jan. 31 to Feb. 14.			
Feb. 16	Timber, wharves, etc.	Norfolk, Va.	Jan.	24
Feb. 16	Dredging	Norfolk, Va.	Jan.	24
Feb. 19	Hydraulic dredge	Toronto, Ont.	Jan.	17
	Advertised, Eng. News, Jan. 17 to 31.			
Feb. 25	Monument	New York, N. Y.	Jan.	24
	Advertised, Eng. News, Jan. 24 to Feb. 21.			
Feb. 25	Electric railway	Winnipeg, Man.	Jan.	31
Feb. 26	Sea wall	North Chicago, Ill.	Jan.	31
	Advertised, Eng. News, Jan. 31 and Feb. 7.			
Mar. 1	Garbage removal	Adrian, Mich.	Jan.	24
Mar. 2	Dredging	New London, Conn.	Jan.	31
	Advertised, Eng. News, Jan. 31 to Feb. 21.			
Mar. 5	Buoy service	Tompkinsville, N. Y.	Jan.	31
Mar. 18	Tunnel	New Zealand (Foreign)	Sept.	13
	Advertised, Eng. News, Sept. 13 to Mar. 14.			
Mar. 27	Dredging	New Orleans, La.	Jan.	24
	Advertised, Eng. News, Jan. 24 and 31.			
Apr. 2	Reclamation work	British India (Foreign)	Jan.	17
Apr. 12	Ditches	Brookings, S. Dak.	Oct.	13
No date	R. R. supplies	Council City & Solomon River R. R.	Jan.	24

CIVIL SERVICE EXAMINATIONS.

Feb. 6	Examiner of Surveys	Washington, D. C.	Jan.	17
Feb. 18	Marine Engineer	San Francisco, Cal.	Jan.	17
Feb. 19	Architectural Draftsman	New York, N. Y.	Jan.	31
Feb. 20	Electrician	San Francisco, Cal.	Jan.	17
Feb. 23	Bridge Draftsman	Albany, N. Y.	Jan.	31
Feb. 23	Assistant Electrical Engr.	Albany, N. Y.	Jan.	31
Feb. 23	Assistant Steam Engr.	Albany, N. Y.	Jan.	31
Feb. 27	Chief Engineer	St. Louis, Mo.	Jan.	31
Mar. 6	Irrigation Manager	Washington, D. C.	Jan.	31
Mar. 6	Superv. Drainage Engr.	Wash., D. C.	Jan.	31

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cars. This [illegible] be done to make street railway travel [illegible]er, and is a direct result of the increa[illegible] the price of lumber used in street-car [illegible]ding.

ST. LOUIS, [illegible]O.—The Central Interurban Traction Co. [illegible] been incorporated with $50,000 cap[illegible] to build and operate street railways. [illegible] incorporators are Charles A. Gutke, [illegible] Hall and John A. Laird, of St. Louis; [illegible]muel J. Will, of Jefferson Barracks, M[illegible] and John C. Clark, of New York. The [illegible]pany plans to operate a 3-cent fare [illegible] within city limits. The Kimmswick, [illegible]boro and Southern Interurban Co., [illegible] was incorporated recently, is to build [illegible] line from Flat River to the city limits, [illegible] from there the traffic will be taken o[illegible] by the new local company. Work is to [illegible]gin on the interurban line as soon as [illegible] weather will permit, and the officers [illegible] the new corporation are only waiting fo[illegible] franchise from the city to begin work [illegible] the line.

FORT SMITH, ARK.—Ira L. Reeves, of Muskogee, [illegible] T., Pres. United Cities Traction Co. [illegible]tates that bids will be received about [illegible] Feb. 15 for the construction of an electric railway in Fort Smith, about 4½ miles in length, and electric light and power plant to cost in all about $100,000. Noted on Dec. 27.

HOUSTON, TEX.—The Houston Electric Co. proposes to spend nearly $500,000 for improvements and betterments, including extensions. David Daly is Mgr.

TEMPLE, TEX.—Dr. T. M. Barnes, Trustee, 110 Rusk St., Fort Worth, Tex., announces that the electric railway which he and others propose to build is to connect Waco, Temple and Marlin, Tex. There will be about 50 miles of line in the country between those points and from four to six miles in the towns. Altogether there are nine smaller towns on the route.

SPOKANE, WASH.—The Okanogan Electric Railway Co. has been incorporated with a capital stock of $3,000,000. The company proposes to build an electric line from the town of Nighthawk to Loomis, thence to the Q. S. mines, thence to Conconully, thence to North Alma or Alma, thence to Malott, Ophir and Brewster. The incorporators of the company are: A. M. Dewey, M. L. Bevis, L. K. Armstrong, Emil Simon, J. L. Ford, E. K. Pendergast and Carleton Prouty.

MONTEREY, CAL.—The Monterey & Pacific Grove Electric Railway Co. has passed into new hands. C. W. Allen and C. P. Smith have sold their interests in that line and in the Monterey County Gas & Electric Co. to George Heazelton, of San Francisco, and E. P. Bolles, Pres. of the First National Bank, of Oakland. Extensions of the present Presidio line through Pacific Grove to Carmel-by-the-Sea, and from Del Monte to Vista del Rey, are projected, as is also a line to Salinas. W. H. P. Hill has been appointed Mgr.

SAN JOSE, CAL.—Amended articles of incorporation for the Santa Clara Interurban Railroad Co., of which L. E. Hanchett is Pres. and S. S. Baldwin, Secy., have been filed with the county clerk. The new electric road will be built from San Mateo to Alum Rock Park near San Jose, and will pass through Redwood City, Menlo Park, Palo Alto, Mayfield, Mountain View, Sunnyvale, Santa Clara and San Jose. The total length will be about 40 miles. The capital stock of the company is $5,000,000, of which $50,000 has been subscribed. The directors are: J. C. Campbell, L. M. Rea and W. H. Metson, of San Francisco; and J. F. Parkinson and Frank D. Dorman, of Palo Alto.

MOSCOW, IDAHO.—We are officially advised that the extension to be built by the Spokane & Inland Empire R. R. Co. from Palouse, Wash., to Moscow, Idaho, will be 15 miles long. Contract was let last fall to GRANT SMITH & CO., with headquarters at Rosalia, Wash. The contract calls for heavy construction. Right-of-way is secured and surveys are made. Alex. M. Lupfer is Ch. Engr., Spokane, Wash.

WINNIPEG, MAN.—Bids are asked by Magnus Peterson, Secy. of the Board of Control, until noon, Feb. 25, for the construction of a single-track electric tramway from Point du Bois to Lac du Bonnet, a distance of 24 miles. Check, $5,000. Plans and specifications may be seen at the office of Cecil B. Smith, Civic Power Expert, Carnegie Library Bldg., Winnipeg. Estimated cost, $250,000.

ST. CATHARINES, ONT.—Plans have been filed for an extension of the Niagara, St. Catharines & Toronto Ry. from the Ferry Landing or Fort Erie to Lundy's Lane, in Niagara Falls South, Ont., where a juncture will be effected with the present line of the company, a distance of 19 miles. It means continuous transportation over the company's lines between Buffalo and Toronto. E. F. Seixas is Gen. Mgr.

LIGHT AND POWER PLANTS.

The names of parties awarded contracts are printed in capital letters.

AUGUSTA, ME.—It is reported that the Kennebec Light & Heat Co. proposes to rebuild its gas plant soon, also to lay several extensions to pipe line. W. H. Williams is Supt.

AUBURN, ME.—Regarding the intention of rebuilding the power plant of the Lewiston & Auburn Electric Light Co., we have been officially advised that nothing has as yet been decided upon. Probably a 500-KW., 2-phase, 2,300-volt plant will be erected, having direct connection with water-wheels. F. D. Gordon is Supt.

BOSTON, MASS.—Bids are asked until 11 a. m., Feb. 16, at the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for two 750-KW. steam turbo-generating units for the Navy Yard at Boston, Mass. This action has been taken as a consequence of the annulling of a contract with the Warren Electric Mfg. Co., for doing this work, the reason stated being their unsatisfactory progress. Considerable material has been delivered at the navy yard under the former contract and bidders will be asked to state, after examination of this material, what allowance they will make for this material or any part of it, if turned over to them by the Government. A copy of the annulled contract can be seen at the Bureau in Washington, or at the Boston Navy Yard.

NEW YORK, N. Y.—Bids are asked until Feb. 4, by C. B. J. Snyder, Supt. School Bldgs., New York City, for installing electric equipment in buildings of the Parental School, Flushing, Boro. of Queens.

NEW YORK, N. Y.—It is announced that the WILKINSON TURBINE CO., of Birmingham, Ala., has lately secured contract from the Longacre Electric Light & Power Co., of New York, for a 10,000-HP. Wilkinson steam turbine for the Longacre company's new power plant. The Longacre Electric Light & Power Co. is controlled by Belmont interests.

BUFFALO, N. Y.—Bids are asked until Feb. 8 (extension of time), by the Board of Public Works, for lighting streets and public buildings with gas, and for furnishing gas to private consumers for five years, beginning March 1, 1907. Francis G. Ward is Comr.; Thomas W. Kennedy is Deputy Street Comr.

PORT HENRY, N. Y.—The State Commission of Gas and Electricity has granted the application of the Port Henry Light, Heat & Power Co. for a certificate of authority to furnish electricity for light and power in Port Henry, but reduced the capitalization from $100,000 to $50,000.

SENECA FALLS, N. Y.—It is reported that the Niagara, Lockport & Ontario Power Co., of Buffalo, has completed its right-of-way for a transmission line from Seneca Falls to Syracuse. R. D. Mershon is Ch. Engr., 60 Wall St., New York, N. Y.

MECHANICSVILLE, N. Y.—It is reported that the Delaware & Hudson Co. will erect a steam-power plant to furnish electricity to operate the cars on the Hudson Valley Ry. The latter line, it is reported, is now held by the Delaware & Hudson Co. It is stated that the proposed plant will be composed of a series of steel turbines, with a combined generating capacity of 30,000 volts, which it is estimated will be sufficient to supply the Hudson Valley Ry. with power for its entire length from Waterford to Warrensburg. The plant will be located at the Hart farm, a short distance from here.

MOUNT HOLLY, N. J.—The contract for lighting streets for five years has been awarded to the PUBLIC SERVICE CORPORATION OF NEW JERSEY. Harry Hawkins, Jr., is Township Clerk.

PHILADELPHIA, PA.—Bids are asked until 11 a. m., Feb. 16, at the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for installing underground electric cables at the Navy Yard, League Island, Pa. Specifications are on file at office of Engineering News, New York. H. H. Rousseau is Ch. of Bureau.

STRASBURG, PA.—It is reported that the Strasburg Electric Light, Heat & Power Co. will ask for a charter and will add the water power at Wheatland Mills to the present plant at Edisonville soon, and at once begin arrangements to run lines to Quarryville, New Providence and Refton. Capital, $50,000. W. K. Bender and L. J. Blair are reported interested.

EASTON, PA.—The question is now under consideration of either improving the present plant of the civic electric light department, or constructing a new plant, at a cost of $45,700. If the plant is improved, about $7,000 will be expended. B. G. Eckard is Supt.

TYRONE, PA.—It is reported that a charter has been granted to the Loan Light & Power Co. to supply electric light, heat and power in Tyrone. Geo. C. Wilson, of Tyrone, and Wallace Wilson, of Alexandria, are interested.

McCALL FERRY, PA.—James H. Harlow, an Engr. and Dir., Susquehanna Power Co., announces it is the intention of his company to construct a dam about two miles below Conowingo, and that the crest of the dam will be 65 ft. This dam will develop 100,000 HP. of electricity.

SEAFORD, DEL.—The Town Council has awarded contract to the LAUREL-SEAFORD ELECTRIC CO. to supply the town with electric lights. Charles C. Stevenson, Laurel, Del., is Mgr.

BERLIN, MD.—The Berlin Electric Light & Water Co. contemplates erecting an electric light and water plant at this town. Complete equipment will be installed.

LEAKSVILLE, N. C.—It is reported J. C. & E. B. King will establish electric light and power plant. A fireproof building will be erected and between $12,000 and $15,000 will be invested.

CHARLOTTE, N. C.—It is reported that the Southern Power Co. has awarded to the WESTINGHOUSE ELECTRIC & MFG. CO., of Pittsburg, Pa., the contract for electrical machinery to equip the two sites recently opened at Rocky Creek Station, on Catawba River and Ninety-nine Island Station on Broad River, at $500,000.

SPARTANBURG, S. C.—The Southern Power Mfg. Co. has applied for a franchise to do business in Spartanburg. The company is engaged in developing water powers in this section and will spend about $1,000,000 in erecting power plants.

CALHOUN FALLS, S. C.—We have been officially advised that contract for construction of power-house and for machinery for the Calhoun Falls Co. will be let in about 30 days. Patrick Calhoun, 30 Broad St., New York, is Chn., and Viele, Cooper & Blackwell, 49 Wall St., New York, are Engrs. It has been reported that this company has been consolidated with the Savannah River Power Co. and the Hatton's Shoals Co., in which Hugh MacRae & Co., Wilmington, N. C., are interested.

AMERICUS, GA.—It is reported that the City Council has accepted the proposition submitted by William A. Dodson and associates, including LeRoy Davidson & Co. and several Philadelphia capitalists, for electric franchises in Americus. About $200,000 will be expended in the installation of electric power plant of sufficient capacity to light the city, pump the water supply into mains and operate an electric railway. A 4-mile electric railway circuit will be constructed and a pleasure park laid out.

CARROLLTON, GA.—Carrollton Electric Co. will make improvements to plant at a cost of $6,000. A 1-story brick building, 60 × 50 ft., will be erected. J. G. Cheney is Mgr.

MONTGOMERY, ALA.—It is reported that the Montgomery Light & Water Power Co. will extend gas mains three miles. P. R. Whiting is Mgr.

OPELOUSAS, LA.—A. C. Jones, Supt. of the city electric light plant, will prepare plans and specifications at once for improving electric light plant, enlarging the capacity, and as soon as they are completed bids will be asked. Mr. Jones has submitted an estimate of the probable cost of the improvements at $20,000.

MAGNOLIA, MISS.—The City Council has contracted with the MAGNOLIA ELECTRIC LIGHT CO. to furnish street lights during 1907. Xavier A. Kramer is Mgr.

NASHVILLE, TENN.—We are officially advised that the National Power Co., of Nashville, Tenn., will develop the water power at Lock "A," Cumberland River, and transmit the current to Nashville, Tenn. H. von Schon, of Detroit, Mich., is Consult. Engr.

KNOXVILLE, TENN.—It is reported that the Legislature has authorized the Knoxville Power Co. to build a dam across the Little Tennessee River above Knoxville. Chas. H. Treat, of New York, N. Y., is Pres., and John T. Wider, of Knoxville, Vice-Pres.; James B. Cahoon, 42 Broadway, New York, is Engr.-in-Charge.

LOUISVILLE, KY.—We are officially advised that plans are being prepared by H. von Schon, Consult. Engr., Detroit, Mich., for two water power plants for Kentucky River Hydro-Electric Co., of Louisville.

Kentucky Electric Co. has awarded contract to E. H. ABADIE & CO., Bank of Commerce Bldg., St. Louis, Mo., for construction of conduit system.

BOWLING GREEN, KY.—We are officially informed that bids are to be called next month for construction and equipment of hydro-electric plant by Green River Hydro-Electric Co., of Bowling Green, Ky. H. von Schon, Detroit, Mich., is Consult. Engr.

COLUMBUS, OHIO.—Bids probably will be called for in March for a 1,000-KW. steam turbine, turbine type alternator, exciter boilers, condenser and auxiliaries, two 300-HP. water-tube boilers, stokers for same, and 300 2,000-c.-p. arc lamps. Estimated cost, $90,000. M. M. Reid is Supt. Dept. of Lighting.

CINCINNATI, OHIO.—The Union Gas & Electric Co. has awarded contract to the LITTLEFORD FOUNDRY CO. for new smokestack to be built at the Plum St. generating station, which will not emit any smoke, because of consuming attachments, and which will be 200 ft. high and 16 ft. in diameter. The JEFFREYS MFG. CO., of Dayton, Ohio, has contract for constructing coal conveyors. The company will expend about $400,000 for improvements.

FORT WAYNE, IND.—The General Electric Co. has decided to make an extensive enlargement of its plant in this city. A building four stories high will be erected and equipped with modern machinery.

ASHLAND, WIS.—On Jan. 15 the citizens voted in favor of municipal lighting, and will install a gas and electric light plant to cost about $80,000. W. G. Kuchoffer, of Madison, Wis., is Engr.

ST. PAUL, MINN.—It is reported that the City Council on Jan. 15 passed a resolution ordering all poles and overhead wires removed, except trolley poles and wires, from practically all the streets in the west half of the Fourth Ward, and also from East Seventh St. from Broadway to Bradley St. The companies owning the wires are given until Sept. 1 to clear the streets.

GARDEN CITY, KAN.—The local electric light plant has been purchased from D. R. Menke by capitalists of this city and of Colorado Springs, Colo. It is reported that the new owners will increase the size and improve the service of the plant.

CLAY CITY, KAN.—We are officially advised that contracts have been awarded as follows for equipment for civic power plant: Generators, B. & R. ELECTRICAL & TELEPHONE CO., Kansas City, Mo.; engines, BUFFALO FORGE CO., 490 Broadway, Buffalo, N. Y.; boilers, ENGLISH IRON WORKS CO., 408 West Fifth St., Kansas City, Mo. Other machinery has not yet been ordered. W. K. Palmer, 718 Dwight Bldg., Kansas City, Mo., is Consult. Engr.; E. L. Bell is City Engr.

JEFFERSON BARRACKS, MO.—We are officially advised that a new system of electric lighting is proposed for Jefferson Barracks, to cost about $50,000. In connection with this system will be a central hot-water heating plant, with forced circulation, using exhaust steam. The latter plant is estimated to cost about $30,000. No plans have as yet been completed. P. W. Rabitt is Engr. and Supt. of Construction.

ALVIN, TEX.—H. C. Mayer, of San Antonio, Tex., and associates will erect electric light, ice and cold storage plants, to cost about $20,000. A corrugated iron building will be erected.

FORT COLLINS, COLO.—The Northern Colorado Electric Light & Power Co., of Denver, is reported to have purchased property south of Fort Collins and will erect on same a switching station plant to cost about $25,000.

STARBUCK, WASH.—It is reported that the Starbuck Electric Light & Power Co. is preparing to construct an electric light plant in this town at a cost of about $6,000. The company has placed an order with the GENERAL ELECTRIC CO. for a generator of 100-KW. capacity. The officers of the company are Dr. M. Pietrzycki, Pres., and F. Pietrzycki, Secy.

CHICO, CAL.—In about two months the Chico Gas & Electric Co. will overhaul its power and lighting service and rewire city. The street lighting system will be changed from the series to the multiple and additional transformers installed.

WOLFVILLE, N. S.—The town is asking the Provincial Government for permission to borrow $20,000 to install an electric light system.

PORT ARTHUR, ONT.—The Grand Trunk Pacific Ry. Co. is applying for the right to develop power at Dog Lake Falls, near Port Arthur, for use in their shops and yards at this town. B. B. Kelliher is Ch. Engr., Montreal.

FORT WILLIAM, ONT.—The Kaministiquia Power Co. has decided to double the capacity of the Kakabeka Falls Power plant by adding 10,000 HP. The additions consist of a single pipe line from the falls to the power plant. R. S. Kelsch, Fort William, is Elec. Engr.

EUGENIA, ONT.—THE AMBURSEN HYDRAULIC CONSTRUCTION CO. OF CANADA, Montreal, Que., has contract for the construction of a concrete-steel dam 40 ft. high and 360 ft. long for the Georgian Bay Power Co., at Eugenia Falls. Mr. H. von Schon, of Detroit, Mich., is Consult. Engr.

BRIDGES.

The names of parties awarded contracts are printed in capital letters.

ATTLEBORO, MASS. — The OSWEGO BRIDGE CO., Oswego, New York, has been awarded contract for constructing bridge over Ten Mile River, at Olive St. The bridge will be 35 ft. wide, with sidewalk, iron guard rails, etc., and is to be completed by April.

BOSTON, MASS.—We are officially advised that bids were received Jan. 24 for constructing steel superstructure of the drawspan and spans Nos. 1 and 2 of the Northern Ave. bridge, as follows: New England Structural Co., 110 State St., Boston, $153,500; Boston Bridge Works, Inc., 47 Winter St., Boston, $155,910; Pennsylvania Steel Co., Girard Trust Bldg., Philadelphia, $164,600; King Bridge Co., 277 Broadway, New York, $169,900; American Bridge Co., 89 State St., Boston, $174,600; New Jersey Bridge Co., Fuller Bldg., New York, $177,224, and the Phoenix Bridge Co., 410 Walnut St., Philadelphia, $197,375. William Jackson is City Engr.

NEW YORK, N. Y.—The Special Commission of New York State will recommend to the Legislature constructing bridge across the Hudson River at a point between 14th and 72d Sts. and New Jersey. Two bridges, each to cost $500,000, to connect Staten Island and New Jersey, will also be recommended. McDougal Hawkes is Chn. Special Commission.

MIFFLINVILLE, PA.—The YORK BRIDGE CO., York, Pa., has been awarded contract for constructing bridge, to be built by the state, over the Susquehanna River, at Mifflinville, for $122,000. J. M. Shumaker is Supt. of Pub. Ground and Bldgs., at Harrisburg, Pa.

RALEIGH, N. C.—The BURLINGTON BRIDGE CO. was awarded, Jan. 22, contract to construct bridge across the Neuse River at Boyce's Crossing. Bridge is to be of steel with wooden joists. Work will be started soon.

ASHEVILLE, N. C.—The Southern Ry. Co. has awarded to YANDLE BROS. the contract for constructing new double-track trestle at this city. The trestle will be constructed of steel and concrete. Estimated cost, $100,000. J. A. Dodson, at Lynchburg, Va., is Supt. Const. Engr.

MILLEN, GA.—It is reported that bids will be asked in March for bridge work. Estimated cost, $8,000.

SAVANNAH, GA.—The War Department has rendered a decision requiring the Seaboard Air Line Railway Co. to replace bridge above this city with a bascule bridge of larger dimensions within 16 months. The bascule will have clear openings of 120 ft. between the fenders, allowing large vessels to pass through. W. L. Seddon, Portsmouth, Va., is Ch. Engr.

GADSDEN, ALA.—The County Commissioners have awarded contract to the CONVERSE BRIDGE CO., Chattanooga, Tenn., for constructing steel approach to east side of the Coosa River bridge, at $5,075. The work is to be completed June 1.

SHREVEPORT, LA.—It is reported that a bridge across Red River is to be constructed jointly by this city and Bossier Parish. Estimated cost, $150,000. E. R. Bernstein is Mayor, Shreveport. J. C. Logan is Pres., Bossier Parish Police Jury, at Benton, La.

GREENWOOD, MISS.—Bids are asked by County Supervisors, until April 1, for building a bridge about 300 ft. long over Marsh Bayou.

CENTERVILLE, TENN.—The Quarterly Court has ordered two bridges to be built across Duck River, one near Only, and the other at Little Lot; both to cost $20,000.

DAYTON, OHIO.—The County Commissioners, at a meeting held Jan. 24, approved plans and specifications for constructing Twin Creek bridge. Bridge is to be constructed having two 150-ft. spans, 16-ft. roadway, and (a) reinforced concrete, or (b) white oak plank floor. Estimated cost, (a) $10,500, (b) $9,000. Robert E. Kline is City Engr.

DEFIANCE, OHIO.—It is reported that the County Commissioners will construct about 20 bridges, with concrete footings. Jacob Singer is Pres. County Comrs. F. G. Blue is County Engr.

JEFFERSON, OHIO.—Bids are asked by Board of Commissioners until 1 p. m., Feb. 25, for reflooring the High Level bridge at Ashtabula with "treated" lumber and wood block pavement. About 3,000 sq. yds. of wood block will be required. P. C. Remick is County Audr.

RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

ATCHISON, TOPEKA & SANTA FE.—This company does not pay for improvements on the system which do not come under the head of maintenance from its earnings, but issues additional stocks and bonds to pay the bills, according to the statement of J. E. Hurley, Gen. Mgr. of the system at Topeka, Kan. Mr. Hurley appeared before the State Board of Railroad Commissioners at Topeka last week to explain the proposed issue of $98,000,000 in bonds or stock. He said that this plan was followed to equalize the protection to the bond and stockholders. In the investigation it was found that the Atchison, Topeka & Santa Fe intends to issue $98,000,000 in bonds or stocks and not in both. This sum is to be used in improvements. The company is planning to finish the double track from Kansas City to Chicago and ballast about 400 miles of track in Kansas. The company also intends to install a block signal on its double-track lines in Kansas.

Mr. Hurley said that one of the plans now under way is the construction of the cut-off from Lexico, N. Mex., to Brownwood, Tex. This line is to be 300 miles long, connecting with the Pan Handle branch of the system, and when trains are started over the Belen cut-off all freight from California for Southern points or exports for Galveston will be diverted over this route instead of being sent around by Newton, Kan.

BUFFALO, ROCHESTER & PITTSBURG.—It is planned to construct a double-track line between Punxsutawney and Butler, Pa., next fall, according to local newspaper reports. J. M. Floesch is Ch. Engr., Rochester, N. Y.

CANADIAN PACIFIC.—The New York "Commercial Bulletin" states that "William Whyte, Second Vice-Pres. of the Canadian Pacific, announces that the company has adopted plans for the construction of 350 miles of railway in the West during the coming season, involving an expenditure of perhaps $6,000,000. The C. P. R. would have laid out considerably more work but for the difficulty in securing labor and rolling stock. The chief new line is from Winnipeg to Edmonton by way of Saskatoon, which will give the Canadian Pacific Railway a second route between the two towns. A good deal of this road is already built, and it is expected that it will be completed before next harvest. The Pheasant Hill branch, which is now built as far as Strassburg, will be extended to connect with this line. A 50-mile feeder will also be built from Moosejaw northwesterly toward the Saskatchewan River. In addition to this work the double-tracking between Fort William and Winnipeg will be pushed ahead, and it is hoped that 300 miles of this will be completed before next year's wheat starts to move."

It is reported that the C. P. R. will spend $100,000 upon improvements to its yards at Port Arthur, Ont.

CATAHOULA CENTRAL.—This company has been organized at Alexandria, La., to build a railroad from that point through the parishes of Rapides and Catahoula to Harrisonburg, about 60 miles. The promoters are: Poindexter Dunn, of Baton Rouge; Wm. L. Whittaker and S. B. Hanes, of Jena, La.; Riley J. Wilson and Robert M. Tolliafero, of Harrisonburg, La., and J. G. Womack, of Manifest, La.

CHIPPEWA VALLEY & NORTHERN.—D. J. Arpin, Pres., Grand Rapids, Wis., states that the extension from Swan Creek to Radisson, Wis., will be six miles in length. The work of construction will probably begin about June 1. T. E. Carlan is Ch. Engr., Atlanta, Wis.

DELAWARE & HUDSON.—Company is planning to double-track its railroad between Watervliet and Waterford, N. Y., a distance of about six miles. The work will involve the construction of two new bridges, with masonry abutments, one over the Erie Canal near Watervliet, Albany County, and the other over the Champlain Canal in the town of Waterford, Saratoga County. The work will be done this winter. James MacMartin, Albany, is Ch. Engr.

GREAT NORTHERN.—A. GUTHRIE & CO., German-American Bank Bldg., St. Paul, Minn., have been awarded the contract for building a cut-off from Kelly Lake to Fermoy, Minn., 22 miles, which will be pushed to completion as quickly as possible. O. W. ERICKSON, of Cloquet, Minn., has the contract for two additional side-tracks 2,000 ft. long, at the Mahoning mine, and for an additional side-track at the La Rue mine.

It is reported that the company will build 15 additional side-tracks in the Kelly Lake yards.

HUTCHINSON, HUNTSVILLE & WESTERN.—Incorporated in Kansas to build a railroad 75 miles long, with branches, from Hutchinson to Huntsville and thence to Hudson. Capital stock, $250,000. Incorporators: H. A. Hill, of Huntsville, Kan.; W. H. Hinshaw, of Sylvia, Kan.; and A. M. Sponsler, E. Rayl, L. A. Bunker, W. H. Mitchell, Chester O'Neal, C. B. Oldfield and G. L. McLane.

KANSAS CITY, MEXICO & ORIENT.—The city of San Angelo, Tex., is reported to have agreed to subscribe $252,000 in aid of the Kansas City, Mexico & Orient Ry., which is the entire subscription requested, and the line will be built to San Angelo. M. P. Paret is Ch. Engr., at Kansas City, Mo. Noted last week.

LEWISTON & KENNEBEC.—A petition has been presented to the railroad commission of Maine asking for the revival of the charter of this company, which was incorporated in 1903 to build a railroad from Gardiner through West Gardiner, Litchfield, Monmouth, Wales and Webster to Lewiston. The petitioners are: Charles C. Benson and John D. Clifford, of Lewiston; Sidney M. Bird and Maynard S. Bird, of Rockland, Me., and Edward W. Cross, of Auburn, Me.

MEXICAN & GULF.—The Thomasville & Gulf R. R. Co., with headquarters at Thomasville, Ga., has made application to Secretary of State for authority to amend its charter, changing its title to the Mexican & Gulf R. R. Stockholders will hold a meeting on Feb. 18 to vote an increase of capital stock. W. C. Snodgrass is Pres.

MID-OREGON & EASTERN.—This railway company, projected by the Cooperative Christian Federation, has secured necessary funds, it is asserted, for constructing its line from Portland south through Clackamas County, six miles east of Oregon City, to Mehama, 62 miles, a station on the Santiam branch of the Corvallis & Eastern R. R. Thence to Idanha, 30 miles, it will use the present tracks of that railroad. The distance to Ontario from that terminus is 330 miles, following the projected line of the Oregon Central & Eastern R. R., now the Corvallis & Eastern. The properties of the Federation are to be held by the trust corporation, whose 15 members are to serve as an executive committee of the Federation. They are: J. Frank Watson, of Portland, Pres. of Merchants' National Bank of Portland, Pres.; Samuel Connell, of Portland., Pres. Northwestern Door & Lumber Co.; L. O. Ralston, of Portland, late president of the Oregon Savings Bank of Portland; C. E. S. Wood, of Portland, attorney-at-law; Wallis Nash, of Portland, Pres. of the Mid-Oregon & Eastern Railroad; J. R. Blackaby, of Ontario, Pres. of the Bank of Ontario; N. U. Carpenter, of Baker City, Pres. of the First National Bank of Sumpter, Vice-Pres. of the First National Bank of Burns, and Cashier of the Citizens' National Bank of Baker City; C. W. Thompson, of the Commercial National Bank of Pendleton; H. S. Wallace, Pres. of the Federation, and David Leppert, Vice-Pres.

MORGAN'S LOUISIANA & TEXAS R. R.—Bids are asked until Feb. 15 by E. B. Cushing, Gen. Supt., New Orleans, La., for "steam shovel work and filling of trestle on the Baton Rouge branch between the west edge of the swamp and the Atchafalaya River." Specifications can be obtained by applying to C. G. Vaughn, Const. Engr., 511 Natchez St., New Orleans, La. (Advertised, Engineering News.)

NORTH COAST R. R.—The route of this proposed road is defined by amended articles of incorporation filed in Washington. The main line is to extend from Spokane to Seattle, 350 miles, passing through the counties of Spokane, Whitman, Adams, Franklin, Benton, Yakima, Lewis, King and Pierce. The new charter provides for the following branches: From some point in Benton or Franklin counties through the counties of Benton, Franklin and Walla Walla, 75 miles; from a point on the main line in Spokane County to Farmington, Whitman County; from a point in Adams County to Eureka Junction, in Walla Walla County; passing through the counties of Adams, Franklin and Walla Walla; from a point in Adams County to Davenport, Lincoln County; from a point in Adams County to Wilson Creek, Douglas County. The capital stock is $500,000, and the incorporators are: Robert E. Strathorn, E. S. Blount and R. J. Danson. Principal office, Spokane, Wash.

OROVILLE & NELSON.—Incorporated in California to build a railroad from Oroville to Nelson, Butte County, 13 miles, to connect the Oroville branch of the Southern Pacific with the main line to Portland. Capital stock, $500,000. Directors: E. E. Calvin, W. F. Herrin, William Hood and N. T. Smith, all of San Francisco, and all officers of the Southern Pacific.

PADUCAH SOUTHERN.—Company is being organized and is practically ready to undertake the active work of surveying for the different railroad lines. The lines are to be built in sections and the first one undertaken will be between Paducah and Hickman, 70 miles, running via Mayfield, Graves County, and Union City, Tenn. The track will be standard-gage. Dr. A. Archer, of Chicago, is promoting the venture, and among the local stockholders are B. H. Scott and H. B. Loving, and A. R. Martin, attorney. $2,000,000 in bonds are reported to have been floated in New York, representatives of capitalists having finished an inspection of the route several weeks ago.

RALEIGH & WESTERN.—Extensions are to be built from Cumnock, N. C., to Greensboro, 58 miles; and also from Randleman to Winston-Salem, N. C., 50 miles. S. A. Henszey is Gen. Mgr., at Cumnock, N. C.

SAVANNAH, AUGUSTA & NORTHERN.—Edward M. Rice, Ch. Engr., who is temporarily located at Statesboro, Ga., announces that the work of making surveys for this road from Savannah to Rossville, Ga., 402 miles, will begin immediately. The line is to be built from the Atlantic Coast at Savannah to Rossville, in Walker County, on the State line. From that point it will reach Chattanooga, across the line in Tennessee, giving an outlet through the big systems which reach that point. The road is intended to pass through the following counties: Chatham, Effingham, Bryan, Bulloch, Emanuel, Jenkins, Burke, Jefferson, Glascock, Warren, McDuffie, Wilkes, Oglethorpe, Clarke, Jackson, Hall, Dawson, Forsyth, Cherokee, Pickens, Gilmer, Murray, Gordon, Whitfield, Catoosa and Walker. A branch line will leave a point in McDuffie County for Columbia and Richmond Counties, reaching Augusta. Among the cities on the proposed route are Dalton, Jasper, Gainesville, Jefferson, Athens, Lexington, Washington, Thomson, Gibson, Louisville, Statesboro and Savannah. The road will be 402 miles in length. Capital, $8,000,000.

SOUTH CAROLINA.—The Carolina Realty & Trust Co., of Bishopville, S. C., desires to hear from contractors who can build and equip a railroad to cost $150,000, toward which the company has right-of-way and $50,000. Payment in 20-year 5% first mortgage bonds is proposed.

ST. LOUIS, OKLAHOMA & PACIFIC.—F. M. Overlees, Pres., Bartlesville, Ind. T., writes that this company, which was recently chartered, proposes to build a railroad from Joplin, Mo., via Bartlesville, Ind. T., to Pond Creek, Okla., a distance of about 240 miles. Beginning at Joplin in the heart of the rich zinc and lead district, it will extend west through a rich rolling prairie country mostly under cultivation, crossing a large deposit of coal into the petroleum and gas fields around Bartlesville and across the cattle grazing lands of the Osage Indian reservation into the rich farming country of Western Oklahoma. H. J. Holm is Secy., and Conrad Strecker is Treas., with headquarters at Bartlesville, Ind. T.

ST. LOUIS, ROCKY MOUNTAIN & PACIFIC.—Company has given a contract to the UTAH CONSTRUCTION CO., of Ogden, Utah, for building 25 miles of road from the present end of its track to Des Moines, N. Mex. All the grading and bridge work will be completed soon.

TEXAS.—Temple D. Smith, of Fredericksburg, Tex., advises us that a company will be organized to build a railway from a point on the San Antonio & Aransas Pass R. R. at Guadalupe River bridge, north to Fredericksburg, about 24 miles. The title of the company probably will be the Fredericksburg Terminal R. R. Surveys have been run and plans and profiles made. Nearly all right-of-way is obtained. There will be some heavy construction work and a 900-ft. tunnel. Capital is not secured. Organization's subsidy is worth about $130,000.

THOMASVILLE & GULF.—See Mexican Gulf R. R.

WAUPACA-GREEN BAY.—Incorporated in Wisconsin to build a railroad from Waupaca northeast to Scandanavia, eleven miles. Capital stock, $150,000. Incorporators: A. G. Nelson, A. M. Penney and John Gordon, all of Waupaca; and A. Aggerbeck and W. B. Johnson, of Chicago.

ELECTRIC RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

LEWISTON, ME.—A petition for the revival of the charter of the Lewiston & Kennebec Railway has been received by the State Railroad Commissioners. This road was granted a charter in 1903 to construct a street railway from Gardiner, through West Gardiner, Litchfield, Monmouth, Wales and Webster (Sabattus) to Lewiston. The petitioners for the charter were Charles C. Benson, of Lewiston; Maynard S. Bird and Sidney N. Bird, of Rockland; John B. Clifford, of Lewiston, and Edward W. Gross, of Auburn. The provisions of the charter relating to immediate construction were not complied with, and it was allowed to lapse.

WINSLOW, ME.—At a special town meeting, held Dec. 29, the Augusta & Waterville Railway Co. was granted a franchise to construct an electric railway through the town and across the Ticonic bridge, the condition being made that the company should bear the expense of putting the bridge in safe condition for passage of the cars. The road is owned by a syndicate represented by John R. Graham, of Bangor.

This company has been granted right-of-way through Augusta, Vassalboro and Winslow. Thomas J. Lynch is Pres. Surveys have been made for 21 miles of railway.

BOSTON, MASS.—The directors of the Boston & Providence Interurban electric railroad recently filed with the board of railroad commissioners a petition for a certificate that public necessity and convenience require the construction of an electric railroad from Forest Hills to the city of Providence. The plan of the proposed road, which is filed with the petition, shows that it is the intention of the directors to practically parallel the tracks of the New York, New Haven & Hartford R. R., going through the towns of Hyde Park, Dedham, Westwood, Canton, Sharon, Foxboro, Mansfield, Attleboro and Seekonk, a distance of 31¼ miles in Massachusetts. The directors of the company are James L. Richards, H. Heustis Newton, Frederick S. Pratt, Russell Robb and Frederic E. Snow. The capital stock is stated to be $5,000,000 and the estimated cost of the road is $4,730,820. Mr. Pratt is Vice-Pres. of the Blue Hill St. Ry. Co., Boston; and Mr. Robb is Pres. of the Tacoma Ry. & Power Co., Tacoma, Wash., and Pres. of the Stone & Webster Engineering Corporation, 84 State St., Boston.

ROCKVILLE, CONN.—C. W. BLAKESLEE & SONS, of New Haven, Conn., have taken the contract for an extension of the line from Rockville to Crystal Lake for the Consolidated Railway Co.

LITCHFIELD, CONN.—The Litchfield & Torrington Tramway Company has applied to the State Legislature for an extension of time to construct its lines and also for a franchise to run from Litchfield to Bantam Lake.

NEW CANAAN, CONN.—The New Canaan Street Railway Co. has been incorporated by William Wardwell, John B. Bliss, Charles B. Keeler, Frederick A. Palmer, Junius Benedict, C. N. Scoville, J. F. Silliman and T. Roberts, all of the town of New Canaan; and Lester Hyatt, Frank H. Merrill, Reed G. Haviland and W. F. Acton, all of the town of Norfolk. The franchise of the company gives it the privilege of constructing its line to Norwalk by either of two routes. The first leads up the main New Cannan Road to New Canaan. The other, a more roundabout way through Silvermine. The company also has the right to extend its lines to Lewisboro and the New York State line. When the new railroad line from Greenwich to Ridgefield is completed the New Canaan Street Railway line will be a direct connection with the new main branch.

PLAINFIELD, CONN.—H. H. Gallup and others have applied to the General Assembly for the incorporation of the Plainfield & Sterling Railway Co., for the construction of an electric railway from Moosup to Sterling.

NEWTOWN, CONN.—T. H. McKenzie, of Southington, and M. J. Houlihan, W. A. Leonard and A. J. Smith, of Newtown, have filed a petition with the Secretary of State for the incorporation of the Newtown Street Railway Co., to construct and operate a street railway in the to[illegible] of Newtown, Bethel, Danbury, South[illegible] and Woodbury.

UTICA, N. Y.—The Uti[illegible] Co. has been incorporate[illegible] of operating a standard-[illegible] in Oneida and Madison co[illegible] pany begins business wi[illegible] of $600,000. The princip[illegible] located in Utica. The di[illegible] Sanborn, E. H. Risley, F. [illegible] Miller, Utica; W. M. We[illegible] F. G. Mott, Hamilton; M. [illegible] Coggeshall, R. W. Rober[illegible] W. Roberts, D. J. Burns, [illegible] Clinton; H. H. Hathaway, [illegible] L. Fuess, Madison.

The Utica Southern Con[illegible] ganized ostensibly for the [illegible] structing the above road, [illegible] papers. The capital stock [illegible] principal office is in Uti[illegible] rectors are: F. G. Mott, H. [illegible] Risley, Utica; H. J. Cogges[illegible]

ITHACA, N. Y.—The Ith[illegible] Electric Interurban Ry. Co. [illegible] porated with capital of $1,0[illegible] $100,000 is to be raised by [illegible] tion. The officers are: P[illegible] Rothschild, Ithaca; Vice-Pre[illegible] Seneca Falls; Secy., J. N. H[illegible] eca Falls; Treas., F. M. Bu[illegible] rectors, Thomas J. Clary and [illegible] Seneca Falls; F. L. Hawe[illegible] liam P. Biggs, Trumansburg; [illegible] er, Romulus. The proposed [illegible] verse a rich farming countr[illegible]

LONG BEACH, N. Y.—The Sea Shore Municipal Railroad Co., of Long Beach, has been incorporated to operate an electric railway from Port Washington to Roslyn and Mineola, through Garden City into Hempstead, thence to Rockville Centre, to East Rockaway, and then to Long Beach, connecting the sound and the ocean. No connection is contemplated with any other system. The company has already bought up the Long Beach Transportation Co., which has tracks between Freeport, Point Lookout and Nassau-by-the-Sea. The capital is given as $150,000. Paul K. Ames, who has successfully conducted the receivership of Long Beach and is Pres. of the Great South Bay Ferry Co., is Pres. of the new corporation; Major A. White, Pres. of the New York Plate Glass Insurance Co., New York, is First Vice-Pres.; Martin H. Day, Secy. of the Thompson & Morris Co., manufacturers of corrugated paper, is Second Vice-Pres.; Henry D. Bristol, of New York, is Secy.; and H. Willard Griffiths, Pres. of the Nassau Cottage and Realty Co., Treas.

LONG ISLAND CITY, N. Y.—The Bowery Bay Railroad Co., of Long Island City, has been incorporated to operate a street surface railroad from Woodside to Astoria. The company has a capital of $100,000, and the directors are Thomas Crimmins, of New York; and A. S. Williams and William Richardson, of Long Island City.

BUFFALO, N. Y.—The Cheektowaga Railway Co., of Cheektowaga, Erie county, has been incoporated with a capital of $75,000 to operate a street surface railroad from Cheektowaga to Buffalo. The directors include W. H. Kinch, C. E. Williams and H. H. Bennett, of Buffalo.

DURHAM, N. C.—Surveys, maps and profiles for the line of the Raleigh & Durham Passenger & Power Co., 22 miles long, have been made by John W. Twiggs, Jr., Engr., Augusta, Ga. No date has been set for opening bids. B. S. Jerman is Pres.; and T. S. Fuller is Secy., both of Raleigh, N. C.

FAYETTEVILLE, N. C.—The James D. Lalor Co., Munsey Bldg., Washington, D. C., is Engr. for the Fayetteville Street Ry. & Power Co.'s proposed electric railway line at Fayetteville, 20 miles long. Power-house and full equipment will be required.

CHESTER, S. C.—Surveys and specifications will be completed for the Chester Traction Co.'s line in about 30 days, we are officially advised, when the James D. Lalor Co., Munsey Bldg., Washington, D. C., will be ready to receive bids for the work. The road will be electric, six miles in length, and will need complete equipment.

FRANKFORT, IND.—The Commissioners of Clinton county have ordered an election for Feb. 12 to vote a subsidy of $50,000 in aid of the construction of the Tipton, Frankfort & Attica Electric Railroad.

ALTON, ILL.—June M. Rhoads, Secy. of the Coalinville, Alton & St. Louis Ry Co., Jerseyville, Ill., advises us that this road will be built from Alton to Coalinville and thence to Jerseyville, but that company probably will not be ready to receive bids for six to ten months yet. A. O. Anten is Pres, Jerseyville. Messrs. Anten and Rhoads are Pres. and Secy., respectively, of the Alton, Jacksonville & Peoria Ry. Co., which will connect Alton, Jerseyville, Carrollton, White Hall, Road House, Jacksonville and Peoria, Ill.

DUQUOIN, ILL.—The name of the Duquoin Rapid Transit Co. has been changed to the Duquoin, Belleville & St. Louis Electric Railway, with the principal offices in Duquoin. A road is now being projected by local capitalists and coal operators to extend from Zeigler to St. Louis, and it is expected that work will begin shortly on the proposed line. The company has elected the following new board of directors: Thos. J. Howell, Harry E. Ross, Wm. R. Hayes and J. Henry Ward.

MILWAUKEE, WIS.—An addition of $15,000,000 to the capital stock will be authorized by the stockholders of the Milwaukee Electric Railway & Light Co. and the Milwaukee Light, Heat & Traction Co., a subsidiary concern. John I. Beggs, Pres., has stated that this increase is made necessary by extensive improvements. The company proposes to add many miles of tracks in the city and extend the interurban line from Milwaukee to Waterton, Wis., and then to Beaver Dam. New car shops also will be built to supply the local companies. President Beggs announced also that before long his company would build nothing but stee[illegible]

NEW PHILADELPHIA, OHIO.—Plans for constructing a wooden trestle, 1,000 ft. long, for the Goshen Hill Coal Co., are being prepared by Paul R. Murray, Engr. Frank McAntosh is Supt.

TIFFIN, OHIO.—Plans, etc., have been submitted by the County Surveyor for repairing Perry St. iron bridge. Estimated cost, $8,260.

CLEVELAND, OHIO.—It is reported that the County Commissioners will erect a bridge across the Cleveland, Lorain & Western R. R. at Shunpike Road. Estimated cost, $50,000. William H. Evers is County Engr.

COLUMBUS, OHIO.—The Broad St. bridge will be repaired. Cost, $14,000. A viaduct will be constructed at Leonard Ave. Cost, $16,000. Henry C. Maetzel is City Engr.

GREENSBURG, IND.—The County Commissioners will replace the wooden bridge over Flat Rock River, near St. Paul, Ind., with a new stone, three-span structure. The main span will be 80 ft. long and the other two 50 ft. each.

RICHMOND, IND.—Bids are asked by the Board of County Commissioners until 11 a. m., Feb. 12, for constructing bridges in Dalton, Jefferson, New Garden, Jackson, Boston, Franklin and Washington Townships.

TAYLORVILLE, ILL.—Contract for constructing the Cemetery bridge has been let to the VINCENNES BRIDGE & IRON CO., Vincennes, Ind., at $7,395. W. D. Waller is Chn. Bridge Com.

MILWAUKEE, WIS.—Bids will soon be asked by the Committee on Bridges for constructing a viaduct. Estimated cost, $400,000. Charles G. Poetsch is City Engr.

PACKWAUKEE, WIS.—The AMERICAN BRIDGE CO., Milwaukee, has been awarded contract for constructing bridge at this city, at $6,690.

SHEBOYGAN, WIS.—It is reported that a new Pennsylvania Ave. bridge will be constructed over the Sheboygan River. C. M. Boley is City Engr.

EMMETSBURG, IOWA.—Bids are asked by Board of County Commissioners until Feb. 5, for furnishing material and constructing all county bridges for the present year. S. R. Stedman is County Audr.

ALBANY, MO.—J. H. SPARKS has been awarded contract for building 23 bridges, at $7,457. W. A. Henton is County Surv.

DALLAS, TEX.—The Gulf, Colorado & Santa Fe Ry. Co. will erect steel and concrete bridges over Haskell Ave. C. F. W. Felt, at Galveston, Tex., is Ch. Engr., Bridges and Roadway.

HOUSTON, TEX.—Bids are asked until Feb. 15, for constructing bridge over Clarke Creek. John B. Ashe is County Audr.

HOUSTON, TEX.—Stone & Webster, Boston, Mass., will ask permission from the State Legislature to construct a bridge, about two miles long, across Galveston Bay to connect the mainland with Galveston Island. The bridge will be used by the proposed interurban electric railway between Houston and Galveston, a distance of 51 miles.

BREMERTON, WASH.—Contract has been awarded to the INTERNATIONAL CONTRACT CO. for constructing the Rolling Bay bridge, at $3,179.

COLUSA, CAL.—It is reported that a steel drawbridge will be constructed across the Sacramento River at Meridian jointly by Colusa and Sutter Counties and the Northern Electric Co. Estimated cost, $75,000. Charles De St. Maurice is Colusa County Surv., at Colusa. C. S. Compton is Ch. Engr., Northern Electric Co., at Chico, Cal.

DAGGETT, CAL.—Bids are asked by L. A. Pfeiffer, County Clk., at San Bernardino, Cal., until Feb. 25, for constructing bridge across Mojave River, about half mile north of this city.

JAMACHA, CAL.—The SOUTHERN CALIFORNIA MOUNTAIN WATER CO. has been awarded contract for constructing bridge 18 ft. wide over Sweetwater River at this place, for $5,000.

TUCSON, ARIZ.—F. L. LOWRY has been awarded contract to construct bridge over the Arroyo River at Stone Ave., for $11,604.

BUILDINGS.

The names of parties awarded contracts are printed in capital letters.

BOSTON, MASS.—A. B. STANNARD, 1135 Broadway, New York, N. Y., has been awarded the contract for constructing an art museum to cost about $1,000,000. Guy Lowell, 1128 Tremont Bldg., is Arch.

BROOKLINE, MASS.—The Harvard Dental School will erect a building in the near future, at the corner of Longwood Ave. and Wigglesworth St., in Brookline, next to the Medical School." This lot, containing 17,840 ft. of land, was purchased two years ago by the corporation for $36,000. It contains 80 ft. frontage and 223 ft. on Wigglesworth St. Plans for the building are being drawn by Shepley, Rutan & Coolidge, 122 Ames Bldg., Boston. They call for a museum, general offices, a library and a large amphitheatre on the ground floor, and an operating room to accommodate about 50 chairs, and several small lecture rooms on the second floor. The top floor will be given over entirely to extensive mechanical libraries. It is estimated that the cost of erecting and equipping the building will be about $250,000, and an additional $250,000 will be required to maintain a sufficient endowment fund to obtain the best results.

CHELSEA, MASS.—The contract for the new Soldiers' Home Hospital, to be built near the other buildings of the home on Powderhorn Hill, Chelsea, has been let to CLOUGH & WARDNER, 46 Cornhill St., and the structure, when completed, will cost in the neighborhood of $175,000, which will be paid by the State. The contemplated building will be 232 ft. long, 101 ft. wide and will be three stories high, with a basement. The basement will be given over to the kitchen, sleeping rooms and accommodations for the nurses. The structure will have brick and stone walls, stone and concrete foundation and a composition roof. It will be lighted by electricity and steam heating apparatus will be installed. Large boilers are planned and ranges to prepare the food, as well as steam-heated copper kettles, electric stoves and fans driven by electricity. The ventilation will be assisted by large galvanized iron blowers, which will warm the fresh air taken from the outside and distribute it throughout the wards. Hardwood finish will be used extensively.

WORCESTER, MASS.—Plans have been prepared for a union station at Worcester by Watson & Huckel, 1211 Walnut St., Philadelphia, Pa., to be used by the Boston & Maine, the New York, New Haven & Hartford, and the Boston & Albany railroads. The building will cost about $400,000, and concrete will be the chief material used in its construction. Nearly 2,000 electric lamps will be used in the lighting system.

Plans for the proposed Slater Building, to be erected on Main St., have been filed with George C. Halcott, Supt. Public Buildings, by Frost, Briggs & Chamberlain, Archs., 518 Main St., Worcester. The building will be eleven stories high, and will cost $900,000.

WATERBURY, CONN.—Plans for the new station for the New York, New Haven & Hartford R. R. Co., to be built in Waterbury, have been prepared, and after a few slight changes have been made, will be turned over to the city authorities for their consideration. It is expected that work on the new depot will be started within a very short time. Estimated cost, $200,000. G. B. Mitchell is Supt. Bldgs., New Haven, Conn.

BUFFALO, N. Y.—As soon as the weather will permit, ground will be broken and the work of constructing the new Buffalo Marine Hospital will begin. It is estimated that from ten to twelve months will be required to complete the work. The hospital will be a 3-story and a basement building, 114 ft. long, with an average width of 62 ft., and will be constructed of brick and stone and terra cotta trimmings.

SCHENECTADY, N. Y.—It is reported that plans are being prepared for the erection of a Y. M. C. A. building. Cost, $250,000. T. Burgess is Secy.

NEW YORK, N. Y.—Plans have been filed with the Buildings Superintendent for enlargement of the World Building, at Park Row and Frankfort St., by the addition of a 13-story annex, which will extend the building through the block to North William St. It will have a frontage on North William St. of 85.3¼ ft. It is to be of granite at the first story and brick and terra cotta above, to harmonize with the original building. The annex is to cost $700,000, and the improvement is to be made for the Press Publishing Co., Joseph Pulitzer, Pres. Horace Trumbauer is Arch.

Plans have been filed for a 3-story public bath and gymnasium at 5 and 7 Rutgers Pl. It is to be 53 ft. front and 124 ft. deep, with a facade of brick, trimmed with granite and terra cotta, and it will have a roof garden. The gymnasium will occupy the top story. The building is to cost $160,000.

We are officially advised that William C. Frohne, 26 East 21st St., New York, has prepared plans for a 12-story commercial building, to be erected at 7 and 9 East 20th St., for Philip Braender. It will have a frontage of 50 ft. and a depth of 82.1 ft., with an extension. It will also have a facade of brick, trimmed with terra cotta and limestone, having a five-windowed bay extending from the fourth story to the roof. It is to cost $340,000.

NEW YORK, N. Y.—The following bids were received Jan. 28, by Theodore A. Bingham, Police Comr., for building stationhouse, prison and stable for the 19th Precinct, on 13th St., near Seventh Ave., Boro. of Manhattan: Thomas B. Leahy, 1 East 42d St., $207,875; Tolmie & Kerr, 205 West 30th St., $205,734; Daniel J. Ryan, 723 Third Ave., Brooklyn, $201,994; Patrick Sullivan, 230 Grand St., $227,000; Luke A. Burke & Son, 25 West 42d St., $202,750; F. T. Nesbitt & Co., 116 Nassau St., $194,500; Louis Wechsler, 1135 Broadway, $194,666; Thomas G. Carlin, 215 Montague St., Brooklyn, $195,998.

C. B. J. Snyder, Supt. School Bldgs., received the following bids on Jan. 28, for installing heating and ventilating and electric generating apparatus in Eastern District High School, on the easterly side of Marcy Ave., between Rodney and Keap Sts., Boro. of Brooklyn: E. Rutzler Co., 127 White St., $95,955; Blake & Williams, 211 West 20th St., $89,390; Frank Dobson, 319 East 53d St., $88,360; Walker & Chambers, 50 East 20th St., $88,858.

NEW YORK, N. Y.—Bids are asked until 11 a. m., Feb. 11, by C. B. J. Snyder, Supt. School Bldgs., for repairs, etc., to Public School No. 147, on east side of Bushwick Ave., between McKibbin and Seigel Sts., Boro. of Brooklyn; for alterations to building and improvements to the site of Morris High School, on 167th St., between Boston Road and Jackson Ave., and extending back to Home St., Boro. of the Bronx; and for installing heating and ventilating apparatus for additions to and alterations in Public School No. 4, on Shore Road, north of Sharrott's Road, Kreischerville, Boro. of Richmond.

HOBOKEN, N. J.—The Hoboken Land & Improvement Co. has awarded the general contract for the erection of the largest apartment houses ever erected in Hoboken to the UNITED CONTRACTORS CORPORATION, of 15 Exchange Pl., Jersey City. The building, which is to be erected on the corner of Bloomfield and 13th Sts., Hoboken, will have a frontage of 174 ft. on Bloomfield St. and a depth of 75 ft. The front will be of pressed brick will limestone trimmings. The apartments will consist of six rooms and bath for 60 families.

PHILADELPHIA, PA.—Improvements to Broad Street Station, involving an expenditure of $400,000, have been authorized by the Pennsylvania R. R. Directors, and work will proceed at once. The new work calls for considerable extensions to the present trackage of the station and for the installation of interlocking switches and signals. At present the standing car capacity of the station is 180 passenger coaches; the projected improvement will allow room for 250. Only three tracks in the station are now as long as 900 ft., the other tracks tapering down to about 350 ft. The plans which have just been approved call for the extension of these tracks to from 780 to 1,020 ft., the extensions occupying considerable of the space formerly utilized by the Adams Express Co. Portions of the track near the lobby of the station will be cut off so as to make it exactly twice its present width. This is now 50 ft., and as now planned, will be enlarged to 100 ft., thus doubling the standing-room capacity and very greatly increasing the conveniences for passengers, especially upon occasions of very heavy traffic.

Watson & Huckel, Archs., 1211 Walnut St., Philadelphia, have awarded a contract to JOSEPH MAGUIRE for erection of an amusement building at Willow Grove Park, in which will be exhibited a miniature city of Venice, for the American Amusement & Construction Co., Land Title Bldg., of which Thomas J. Ryan is the principal stockholder. The building will be finished by the end of May. It will probably be the largest building of its kind in the country, not excepting several similar structures at Coney Island. The plans provide for an immense structure of stone and steel entirely covered over. Through its 300 ft. of length and 185 ft. of width will wind wide canals closely resembling those which divide the real Venice into a group of islands. The building will cost about $100,000.

Work has been started upon the new office building, to be erected for the General Accident, Fire & Life Assurance Corporation, Ltd., at the corner of Fourth and Walnut Sts. Watson & Huckel, 1211 Walnut St., have designed a 6-story brick, stone and reinforced concrete building, the lower floors of which will be occupied by the company. The upper floors will be finished as offices. Entrance will be from Fourth St.

POLK, PA.—It is reported that the Board of State Charities, Harrisburg, has recommended an appropriation of $195,000 for a custodial building for the Western Pennsylvania Institution for the Feeble-Minded, at Polk.

McKEES ROCKS, PA.—The McKees Rocks School Board has purchased a plot 300 × 158 ft. on the Herrly estate, between Chartiers, Thompson and St. John Sts., for $12,000. A $100,000 school building will be erected.

HARRISBURG, PA.—The Board of State Charities has recommended $100,000 for a building for convalescent women and $55,000 for a building for recent acute cases for the Pennsylvania State Lunatic Hospital here.

BALTIMORE, MD.—It is reported that the City Council has passed ordinances appropriating $96,000 for the erection of a 3-story brick and stone school building, at Waverly, and $58,000 for a 3-story brick and stone school building, at Lakewood Ave. and Orleans St. The Council is also considering ordinances appropriating $1,000,000 for new school buildings.

WASHINGTON, D. C.—John Stephen Sewell, Capt., Engrs., Officer-in-Charge of Construction at the Soldiers' Home, Washington, D. C., has made the following awards for constructing mess hall and dormitory at the Soldiers' Home, upon bids opened Nov. 12: VERMONT MARBLE CO., Proctor, Vt., exterior marble, $271,500; AMERICAN BRIDGE CO., 42 Broadway, New York, structural steel, $52,130; NATIONAL FIREPROOFING CO., Colorado Bldg., Washington, D. C., for terra cotta fireproofing, $41,500; J. C. McFARLAND & CO., North Capitol and E Sts., for slate roof, $4,375; for skylight, $3,253; DAVID LUPTON'S SONS CO., sheet metal work, $18,400; EVANS MARBLE CO., interior marble, $36,336; NATIONAL MARBLE CO., Washington, D. C., terrazzo flooring, $8,130; CUTLER-MARSHALL CO., 1210 New York Ave., N. W., Washington, painting and graining, $3,865; HUGH REILLY, Washington, glazing, $7,897; POTOMAC BRICK CO., Washington, common brick, $9.35 per thousand. The rest of the contract has not as yet been awarded.

WASHINGTON, D. C.—Itemized schedule of bids received Jan. 23, for the structural steel work for the roof of the House office building are given in this issue under Contract Prices.

JAMESTOWN, VA.—Bids are asked until 3 p. m., Feb. 18, by James Knox Taylor, Superv. Arch., Washington, D. C., for construction of building for the Ter-Centennial Commission, Jamestown Exposition. (Advertised, Engineering News.)

SULPHUR SPRINGS, N. C.—Otto B. Schoenfeld, of New Orleans, La., who recently purchased Sulphur Springs property, it is reported, will expend $250,000 in improvements, including erecting a $125,000 hotel.

MONTGOMERY, ALA.—We are officially advised that WELLS BROS.' CO., 160 Fifth Ave., New York, have general contract for the First National Bank building, to be erected at Montgomery. Carpenter, Blair & Gould, 475 Fifth Ave., New York, N. Y., made the plans. The building will be of fireproof construction, 80 × 80 ft., 12 stories high, and will cost $350,000.

BOWLING GREEN, KY.—A Federal building is to be erected here, to cost about $100,000. It probably will be situated on property owned by Dr. S. B. Johnson, at the corner of College and Eleventh Sts.

CANTON, OHIO.—An academy will be erected near Canton, for Our Lady of Lourdes Convent. The plans have been prepared by W. P. Ginther, Arch., Cleveland, and provide for a structure costing about $135,000. The general contract has been awarded to WILLIAM F. TAUSCH, of Cleveland, who expects to start work early in the spring.

CINCINNATI, OHIO.—Elzner & Anderson, Archs., Fourth and Vine Sts., have completed plans for a residence for Senator J. B. Foraker, Traction Bldg., to cost $200,000. Figures are to be taken in the spring.

CLEVELAND, OHIO.—Bi[illegible] are asked until 3 p. m., March 5, by Ja[illegible] Knox Taylor, Superv. Arch., Washington, [illegible], for the interior finish of the U. S. [illegible]ffice, custom-house and court-house at [illegible]land. Arnold W. Brunner, 33 Union Sq[illegible], New York, N. Y., is Arch. (Advert[illegible] Engineering News.)

CLEVELAND, OHIO.—We [illegible] officially advised that bids probably will [illegible] asked March 10 by the Board of Educat[illegible] for constructing a technical high school, [illegible] be erected at East 55th St. and Scovill[illegible] Estimated cost, $250,000. Frank S. [illegible]um is Supt. of Bldgs., Board of Educa[illegible]

BATTLE CREEK, MICH.—[illegible] Board of Education has decided to [illegible] a $150,000 high school on three lots o[illegible] Buren St.

CHICAGO, ILL.—According [illegible] press reports, "Charles H. Gazley, [illegible]noter of the magnificent Otto Young hot[illegible] to be built on Michigan Ave., extending [illegible] Hubbard to Peck Courts, Chicago, announ[illegible] that work will be begun May 1. The b[illegible] is to be 16-story, 400 × 161 ft., of st[illegible] construction, with brick and terra cotta exte[illegible]. A feature of the building will be the [illegible]cock' walk, a promenade 25 ft. wide a[illegible] the entire frontage on Michigan Ave., [illegible] marble and bronze. The interior finish [illegible] the structure will be of the most elaborate [illegible]acter, partly mahogany, marble and mosaic [illegible]ork. It will contain 1,500 guest rooms a[illegible] twelve restaurants, the latter to be fitte[illegible] up and decorated in styles characteristic o[illegible] twelve different nationalities. It is to [illegible] named the Young Hotel, in memory of the late Otto Young, whose estate is interested in the venture to the extent of $2,000,[illegible] in addition to owning the site. Estimated [illegible]ost, $10,000,000. D. H. Burnham & Co., 1417 Railway Exchange Bldg., are Archs."

Plans for the $4,000,000 Field Museum of Natural History, in Grant Park, have been submitted to Lyman A. Walton, Pres., of the South Park Board, by Harlow N. Higinbotham and Frederick J. V. Skiff, Trustees of the Museum. The building, when completed, will have a frontage of 1,300 ft. facing Michigan Ave., with the main entrance at the foot of Congress St. extended. The depth of the plot it will occupy is 800 ft., midway between the Illinois Central R. R. Co.'s right-of-way and the shore line. Eventually the museum will have a main building and two wings, in form not unlike the present home in Jackson Park, but it is proposed now to put up only the central structure, spending on it $3,000,000. The building will be fireproof in construction. The foundation will be of concrete on piling, and the wall of brick, with stone for the exterior, and facing brick for the court. The floors will be laid on steel beams with cement, and the roof on steel frames, and composed of tile and composition.

CHICAGO, ILL.—The L. C. Paine Freer estate will improve the land at 225 and 227 Washington St. with an 8-story building. It will adjoin the Occidental Bldg. at the corner of Washington and Market Sts., which is owned by the estate. It will have a 50-ft. frontage and a depth of 190 ft., and will be of standard mill construction. It will cost $150,000.

C. A. Eckstorm, Arch., Tacoma Bldg., is preparing plans for an 8-story warehouse for Siegel, Cooper & Co., to cost $250,000. The structure will be located at corner of 16th and State Sts., and will be 200 × 150 ft. It will be built of brick, stone and iron and will have steam heating, electric lighting, elevators, etc.

It is reported that Joseph Joyce will build an apartment house at Sheridan Road and Edgecomb Pl. It will be 113 × 150 ft., having three stories, and costing $100,000.

MADISON, WIS.—Bids are asked until noon, Feb. 26, by the Wisconsin Capitol Commission, for furnishing stone for exterior facing of the Capitol, now building. Lew F. Porter, Madison, is Secy. of Comn. (Advertised, Engineering News.)

CHEYENNE, WYO.—We are officially advised that the following bids were received for constructing (a) field officers' quarters, (b) captains' double quarters, (c) lieutenants' double quarters, (d) bachelor officers' six quarters, (e) two company barracks, (f) special, one company barracks, (g) tables: R. W. Bradley & Co., Cheyenne, (a) $54,000, (b) $82,500, (c) $46,970, (d) $31,975, (e) $159,838, (f) $206,000, (g) $77,820; Atkinson Bros., Colorado Springs, Colo., (a) $63,128, (b) $78,600, (c) $47,000, (d) $33,300, (e) $152,400, (f) $179,000, (g) $90,000; C. E. McGarvey, Cheyenne, (a) $56,000, (b) $68,700, (c) $32,700, (d) $30,800, (e) $172,000, (f) $179,000, (g) $86,000; William Simpson Construction Co., Denver, Colo., (a) $59,916, (b) $83,364, (c) $43,950, (d) $29,950, (e) $156,520, (f) $192,000, (g) $88,000; Thomas H. O'Neil, Denver, Colo., (a) $61,500, (b) $81,975, (c) $45,000, (d) $30,500, (e) $155,500, (f) $184,000, (g) $79,000; Kittridge & Graham Construction Co., Denver, (a) $78,120, (b) $95,775, (c) $51,478, (d) $36,501, (e) $138,6[illegible], (f) $228,868, (g) $130,524. Capt. V. K. Hart is in charge of construction.

MINOT, N. DAK.—It is reported that the Minneapolis, St. Paul & Sault Ste. Marie Ry. Co. will construct a station at Minot, costing about $100,000. Alexander Amos is Supt. Bridges and Bldgs., Minneapolis.

KANSAS CITY, MO.—Jarvis Hunt, Arch., 1407 Monadnock Bldg., Chicago, Ill., has let general contract to GEORGE A. FULLER CO., Marquette Bldg., Chicago, for the National Bank of Commerce building, to be erected at Kansas City, at $1,250,000.

ST. LOUIS, MO.—Catalpa Realty Co. has purchased property containing about 700 ft. front, on which to erect stores and apartment houses. About $200,000 will be expended.

Bids were received Jan. 18 and the contract let for erection of an office building on the corner of Grand Ave. and Olive St. The building will go up under the supervision of Storm & Farish, 112 North Eighth St., who are the promoters of the structure. It is to be called the Metropolitan Building, and will be eight stories high, with deep basement. Steel-frame construction will be used throughout and the structure will be fireproof. The exterior will be of glazed white

brick and terra cotta, with trimmings in light cream-colored brick. The height will be 100 ft., and it will stand on a lot having a frontage of 100 ft. on Oliver St. by a depth of 12[illegible] on Grand Ave. The main entrance will [illegible] from Grand Ave. The building is being erected by the Lauran Realty Co., and the contract was awarded to the WESTLAKE CONSTRUCTION CO., Mercantile Bldg., St. Louis. The work of wrecking the old building will commence March 1.

FORT SMITH, ARK.—Sanguinet & Staats, Hexie Bldg., Fort Worth, Tex., have let general contract to the REDDICK CONSTRUCTION CO., Fort Smith, for a 6-story brick, stone and steel bank and office building, 48 × 130 ft., for the Atkinson Improvement Co., Fort Smith. Cost $150,000.

TULSA, IND. T.—The Central Building Co. has purchased site on which to erect proposed 5-story building, to cost $125,000.

DENVER, COLO.—Early next month the excavation work will be started for an 8-story office building on the corner of 17th and Champa Sts. Edwin R. Cooper, Fred G. Bonfils and Charles Boettcher, Great Western Sugar Co., Denver, will furnish capital for the work, which will cost about $200,000.

It is reported that a central exchange building is to be constructed in Denver. The plans for this structure call for a building not less than six stories high. It probably will be located in the neighborhood of 17th and Welton Sts., and will cost about $500,000. It will be provided with an assembly room, a banquet hall, a buffet dining hall, and will house the Real Estate Exchange, the Chamber of Commerce, the American Mining Congress, the Colorado State Commercial Association, the Traffic Club, the Manufacturers' Association, the Denver Convention League, and possibly the National Live Stock Association and State Federation of Labor.

SAN FRANCISCO, CAL.—The Supervisors have passed an ordinance appointing William Curlett architect for the proposed public library, to be located on Van Ness Ave. Estimated cost, $1,000,000.

H. C. Callahan has filed an application with the Board of Works for a permit to erect an 8-story brick building on the corner of Bush and Stockton Sts., to cost $160,000.

The new building of the California Fruit Canners' Association, to consist of a brick factory and warehouse, will cover an entire block, 275 × 412 ft., bounded by Beach, Leavenworth, Jefferson and Hyde Sts., and will represent the expenditure of $500,000. The association's engineer, Philip L. Bush, has charge of the work. These buildings, with the canning department, the specialty department, and the warehouse, will have a floor space of 300,000 ft., and a train of 14 freight cars can be run under cover of the structure.

SAN DIEGO, CAL.—D. C. Reed and M. Hall recently let the contract for the erection of the 4-story building on the southeast corner of Sixth and F Sts. to CARL LEONARDT, H. W. Hellman Bldg., Los Angeles. The building will be constructed of reinforced concrete, at a cost of about $100,000. The plans were drawn by Harrison Albright, who also designed the Grant Hotel and the Union Building. The new building will have stores on the ground floor and the three remaining floors will be devoted to modern apartments.

MONTREAL, QUE.—M. C. Galarneau & Co., who were recently burned out, have purchased a large site on Victoria Sq. and will erect thereon a 10-story office building in the spring.

OTTAWA, ONT.—The sums of $500,000 for 1906-07 and $400,000 for 1907-08 are provided in the Government estimates for the new departmental buildings, to be erected here by the Dominion Government.

BRANDON, MAN.—A party of Grand Forks, N. D., capitalists have purchased a site here, on which to erect an implement warehouse, 150 × 350 ft., to cost $100,000. J. R. Waters, A. A. Koch or J. W. Burgess, all of Grand Forks, N. D., are interested.

CALGARY, ALTA.—The City Council has decided to make arrangements at once for the building of a new city hall, to cost $175,000. A. L. Cameron is Mayor; F. W. Thorold is City Engr.

W. H. Stone, Arch., Winnipeg, is preparing plans for the $200,000 Canadian Pacific Ry. depot, to be erected here. The building will be of red sandstone. R. R. Jamieson is Supt., Calgary.

EDMONTON, ALTA.—CHARLES MAY has secured the contract for erection of the new post-office here, at $240,000. The building will be faced with Tyndall stone.

WATER SUPPLY—IRRIGATION.

The names of parties awarded contracts are printed in capital letters.

HOOSICK FALLS, N. Y.—It is reported that the city will issue $75,000 bonds for constructing new water-works.

NEW YORK, N. Y.—Bids are asked by John H. O'Brien, Comr. Water Supply, Gas and Electricity, until 2 p. m., Feb. 6, for furnishing and delivering corporation cocks; also for furnishing, delivering and laying water mains and removing existing water mains in Flushing, Franklin, Harrison, Marcy, Metropolitan, Myrtle, Nostrand and Park Aves., and in Harrison, Hooper, Leonard, Rodney, Roebling, Skillman and Walworth Sts., Boro. of Brooklyn.

UTICA, N. Y.—The state authorities have approved plans of the Consolidated Water Co., 234 Genesee St., Utica, for laying a 20-in. c.-i. water main underneath and across the Erie Canal, near Broad St., in connection with the city water supply system. The pipe is to be laid on a bed of concrete 12 ins. thick and 18 ins. wide. Work must be completed before the opening of navigation. J. V. Cockcroft is Pres. Consolidated Water Co.; Paul Schultz is City Engr.

BUFFALO, N. Y.—J. N. Adam, Mayor, has formally approved of the action of the Common Council in authorizing Francis G. Ward, Comr. Pub. Wks., to contract with the Buffalo Dredging Co., 305 D. S. Morgan Bldg., Buffalo, at its bid of $1,272,764, for constructing an intake, tunnels, shafts, piers, etc., for the new water-works.

PEEKSKILL, N. Y.—Proposals and specifications are asked by Stoner Realty & Construction Co., 911 South St., Peekskill, for best method of supplying and distributing water to and from standpipe to be erected at Hudson Park. L. H. Stoner is Pres. (Advertised, Engineering News.)

NEWARK, N. J.—Bids are asked by Board of Street and Water Commissioners between 3.15 and 3.30, Feb. 7, for furnishing coated c.-i. water pipe and special castings. G. Sanzenbacher is Engr. and Supt., Dept. of Water. (Advertised, Engineering News.)

ATLANTIC CITY, N. J.—We are officially informed that the proposed water-works extension consists of 5½ miles of 48-in. force main; 10,000,000-gallon pumping engine; new stand-pipe and addition to pumping station. Estimated cost, $300,000. L. Van Gilder is Engr. and Supt. Water Dept.

HIGHLANDS, N. J.—Runyon & Carey, Engrs., 122 Market St., Newark, N. J., are preparing plans and estimates for constructing water-works plant at this city. Cost, $27,500.

COATESVILLE, PA.—Plans and specifications for proposed new water system for this city from the upper Hibernia dam on the Brandywine River, a distance of five miles, have been prepared. T. Chalkley Hatton, Wilmington, Del., is Engr.

MEADVILLE, PA.—We are officially advised that bids were received as follows on Jan. 16 at the office of the Water and Light Department, Henry Ellsworth, Supt., for furnishing and erecting complete on foundations at the pumping station in Vernon Township, a triple-expansion, condensing direct acting steam pump of 2,500,000 gallons daily capacity; also one pump of same type, 3,000,000 gallons capacity: The Marine Engine & Machine Co., 126 Liberty St., New York, for crank and fly-wheel type, 2,500,000 gallons capacity in 24 hours, $17,640, and two bids for same type, 3,000,000 gallons capacity, $19,205 and $22,435. The Nordgberg Manufacturing Co., Milwaukee, Wis., crank and fly-wheel type, 2,500,000 gallons, $15,960; 3,000,000 gallons, $17,000. Henry R. Worthington, 114 Liberty St., New York, direct-acting type, 2,500,000 gallons, $17,500 and $17,200; 3,000,000 gallons, $18,350 and $17,650. Laidlaw-Dunn-Gording Co., Cincinnati, Ohio, crank and fly-wheel type, 2,500,000 gallons, $13,100; 3,000,000 gallons, $14,550. D'Olier Engineering Co., 121 South Eleventh St., Philadelphia, Pa., direct-acting type, 2,500,000 gallons, $11,270; 3,000,000 gallons, $11,470. Fred. M. Prescott Steam Pump Co., Milwaukee, Wis., direct-acting, 2,500,000 gallons, $11,810; 3,000,000 gallons, $12,060; crank and fly-wheel, 2,500,000 gallons, two bids, $17,845 and $19,195; 3,000,000 gallons, $19,350 and $20,950. Epping-Carpenter Co., Pittsburg, Pa., direct-acting, 2,500,000 gallons, $8,800; 3,000,000 gallons, $9,650. John H. McGowan Co., Cincinnati, Ohio, direct acting, 3,000,000 gallons, $6,800. Pratt Iron Works, Dayton, Ohio, crank and fly-wheel, 2,500,000 gallons, $15,830; 3,000,000 gallons, $18,218; direct-acting, 3,000,000 gallons,, $10,465. C. E. Douglas is City Engr. Detailed bids will be found under Contract Prices in this issue.

WASHINGTON, D. C.—Bids are asked by the Commissioners of the District of Columbia, until noon, March 2, for furnishing fire hydrants. Henry B. F. Macfarland, Henry L. West and John Biddle are District Comrs.

LYNCHBURG, VA.—A new stand-pipe is to be erected at the College Hill reservoir. The work of constructing water system is now being completed. Cost, $1,000,000. H. L. Shaner is City Engr.

EUFOLA, N. C.—Osborne Brown, of Long Island, N. C., has purchased and will develop the Daniel Moore Shoals property on the Catawba River.

TRYON, N. C.—Ferguson & Russell, New York, have secured franchise to install water-works and electric light plant.

ATLANTA, GA.—Bids are asked by Board of Water Commissioners until Feb. 6, for furnishing 250 tons of c.-i. water pipe, 6, 8 and 10 ins. in diameter, and of standard weight, guaranteed to stand hydrostatic pressure of 300 lbs. per sq. in. after being laid. Also the price per pound for furnishing all standard fittings for pipe. R. M. Clayton is City Engr.

McCOMB, MISS.—Contract for extending water mains 23,000 ft. has been awarded to P. H. PORTER, Kentucky, at 71 cts. per ft. J. Dock Harrell is City Clk.

NEWTON, MISS.—It is reported that the city will issue $50,000 of bonds for constructing new water-works.

HUMBOLDT, TENN.—It is reported that an additional 150-HP. boiler will be installed in the municipal water-works and light plant. W. A. Moore is Supt.

FORT WAYNE, IND.—Bids are asked until 2 p. m., Feb. 14, by the Board of Public Works, for lining reservoir with reinforced concrete. F. Randall is City Engr. (Advertised, Engineering News.)

BLOOMFIELD, IND.—Bids are asked by the County Commissioners for improving water-works system.

MT. PLEASANT, MICH.—Bids are asked by Board of Public Works until 2 p. m., Feb. 20, as follows: Bid No. 1, for furnishing materials and constructing head wall, head gate, conduits, penstock, discharge pit, tail race and power-house; bid No. 2, for furnishing materials and constructing a reservoir and suction pipe; bid No. 3, for furnishing materials and constructing entire work. M. Devereaux is Pres. Bd. of Pub. Wks. The Riggs & Sherman Co., 613 Nasby Bldg., Toledo, Ohio, are Engrs. (Advertised, Engineering News.)

GRAND RAPIDS, MICH.—The Allenized Water Co. has been incorporated by F. E. Pulte and associates of this city at $100,000.

CHESTER, ILL.—A new water-works system will be constructed in this city.

LOCKPORT, ILL.—A number of new water mains will be constructed in this city.

MATTOON, ILL.—We are officially advised that bids received Jan. 27 by the Commissioners of Drainage District 1 B, of Seven Hickory Township, for excavating open ditch, furnishing and laying drain tile, have been rejected. New bids are asked until 1 p. m., Feb. 20. Claude L. James is City Engr.

GARNER, IOWA.—Bids are asked by the County Commissioners until 2 p. m., Feb. 5, for constructing drains in Drainage District No. 10. About 25 miles of open ditch and 8½ miles of tile ditch will be constructed. Thomas Duff is County Audr.

HAMBURG, IOWA.—RANKIN & COWDEN have been awarded contract for digging the Nishnabotna ditch, east of this city, at $47,319.

MINNEAPOLIS, MINN.—Bids for digging and constructing ditches Nos. 6 and 7 have been rejected and letting postponed uptil April. Hugh R. Scott is County Audr.

FRONTENAC, KAN.—A new water-works system will be constructed by the city.

BELLEFOURCHE, S. DAK.—A new pumping system is to be installed in this city, consisting of a gasoline engine and pump having capacity of 60,000 gallons per 24 hours.

BISMARCK, N. DAK.—JAMES KENNEDY, Fargo, N. Dak., has been awarded contract for constructing an 8-in. water main, running from Ninth and Rosser Sts., Bismarck, to and connecting with present water main, at Ft. Lincoln, with valves, meters, etc., complete B. Davis is Constr. Q. M., Ft. Lincoln.

CENTRALIA, MO.—Burns & McDonnell, Engrs., Dwight Bldg., Kansas City, Mo., are preparing plans, specifications and estimates for constructing water-works and sewers.

MENA, ARK.—It is reported that the city will construct new water-works system.

HUNTSVILLE, TEX.—City has an incomplete water system, consisting of stand-pipe and water mains, representing an investment of $15,000, and invites propositions from responsible parties to dig a well and install pumping plant, either operating the system under lease or furnishing such well and plant to city at contracted price. Population, 3,000. A. T. Randolph is City Secy.

SULPHUR, IND. T.—It is reported that a new water-works system will be constructed. George C. Boland is Supt. Water-Works.

AULT, COLO.—Contract for constructing new water-works in this city has been awarded to FRANK STONER, Greeley, Colo.

HOTCHKISS, COLO.—One of the most important projects in connection with the development of this region is the proposition to construct a reservoir that will furnish water to a large part of Barrow and Rogers mesas. Papers have been recorded for the Alta Vista reservoir site by C. A. Fowler of Rogers mesa and Frank Van Deren of Paonia. Work of constructing the dam will soon be commenced. The reservoir site is located about four miles east of Hotchkiss and consists of 45 acres. The dam will be about 1,000 ft. long and will be built according to state specifications.

STERLING, COLO.—The Sterling Promotion & Irrigation Co. has been organized to construct two reservoirs to irrigate 65,000 acres of semi-arid land lying between Iliff and Crook. The reservoirs will be located on Pawnee Creek, five miles west of Atwood, and on Cedar Creek at Point of Rock. The feeder ditch to supply the reservoirs will tap the South Platte River at Union, 19 miles from Cedar Creek and 22 miles from Pawnee. The outlet ditch will be 36 miles long. The reservoirs will have a capacity of 38,000 and 77,000 acre-ft., respectively. Estimated cost, $1,500,000. The following are stockholders of the Sterling Promotion & Irrigation Co.: George A. Henderson, E. M. Gillett, Y. A. Hayward, H. T. Hayward, W. H. White, S. E. Naugle, C. C. Goddard, T. S. Gillett, F. J. Henderson, W. C. Harris, G. C. Brown, A. E. Buchanan, George W. McClay, W. B. Giacomini, Thomas Pedroni, William Tew, H. E. Munson, Judge E. E. Armour, Hon. W. J. Powell, F. H. Blair and C. B. Timberlake.

MILTON, WASH.—Collins & Reynolds, of this city, have purchased the local water-works and are planning extensive improvements.

SEATTLE, WASH.—Bids are asked until 10 a. m., Feb. 26, for the construction and completion of certain additions to the existing water-works owned and controlled by the city of Seattle. These additions include a pressure pipe from Cedar River to the city; also, the earthwork construction on certain reservoirs on lands acquired by the city. The contract will be let in three separate subdivisions, and will embrace the following general items of construction: In Subdivision 1—A pressure pipe line from the present settling basin on Cedar River to a point west of the Volunteer Park Reservoir in the city, being about 28½ miles in length, of which the first section of about twelve miles will be 60 ins. internal diameter, all of wooden stave. The next section of about twelve miles will be 51½ ins. internal diameter, of which there will be about 10½ ins. of wooden stave. The next section of about 4½ miles will be 48 ins. internal diameter, of which about four miles will be wooden stave, and the remaining portion riveted steel. Also, there will be laid about 250 ft. of 42-in. internal diameter, wooden stave pipe through the park grounds west of Volunteer Park Reservoir. Also, a riveted steel waste pipe, partly 30 and 24 ins. internal diameter, about 3,000 ft. in length, leading from the Volunteer Park Reservoir to Lake Union. Two Venturi meters will be installed; one in 60-in. wooden stave pipe, and one in a 51½-in. wooden stave pipe; the 60-in. meter being located near the settling basin, and the 51½-in. meter will be located near the Beacon Hill Reservoir.

In Subdivision 2—Will consist of grubbing the site for, and the earthwork construction of, the Beacon Hill Reservoir, which will have capacity of 100,000,000 gallons.

In Subdivision 3—Intermediate reservoir located on the northerly city limits, and the contract will consist of clearing and grubbing the site for, and the earthwork construction of, a 50,000,000-gallon reservoir. Separate bids will be received and separate contracts will be let for each subdivision. C. B. Bagley, Secy. Bd. Public Works.

KLAMATH AGENCY, ORE.—J. H. OWENS, Los Angeles, Cal., has been awarded contract to construct water and sewerage systems by the Indian Office, Washington, D. C. Horace G. Wilson is Supt.

BERKELEY, CAL.—The People's Water Co. has plans for constructing new drains. C. L. Huggins is City Engr.

SUMMERSIDE, P. E. I.—Bids will be asked by Water and Sewerage Commissioners in February or March for constructing water-works and sewerage system. Estimated cost, $75,000. James A. McNeill is Chn. Water and Sewerage Comrs.

WINNIPEG, MAN.—Bids are asked by Board of Control until 10 a. m., Feb. 6, for furnishing 4,500 ½-in., 150 ¾-in., 125 1-in., and 25 2-in. water meters. Magnus Peterson is Secy. Bd. Control; H. N. Ruttan is City Engr.

ST. BONIFACE, MAN.—Bids are asked by Board of Water-Works until noon, Feb. 11, for furnishing 500 ½-in. and 500 ¾-in. lead flange corporation cocks, before May 1. J. B. Cote is Secy. and Treas. Bd. Water-Works; Cecil Goddard is City Engr.

ESTEVAN, SASK.—Estimate for constructing water-works and electric light system has been made by Willis Chipman, C. E., Toronto. Estimated cost, $67,000.

SEWERAGE.

The names of parties awarded contracts are printed in capital letters.

BOSTON, MASS.—Bids are asked by Capt. George L. Goodale, Fort Standish, Lovell's Island, Boston Harbor, Mass., for constructing new sewer connection.

BINGHAMTON, N. Y.—S. M. Baird, City Engr., is preparing plans and specifications for constructing new sewer in Mill St. and 1,370 ft. of sewer in Bigelow St. north from Court St. The City Council will consider constructing these sewers as soon as plans are ready. D. C. Herrick is City Clk.

NEW YORK, N. Y.—The Board of Local Improvements of Newtown District, Boro. of Queens, has authorized constructing trunk sewer in Central Ave. from Myrtle Ave to Proctor St., in the Glendale District. Estimated cost, $225,000. Constructing sewers in Ely Ave. and Academy St. from Webster to Washington Ave., Ravenswood, have also been authorized. Estimated cost, $24,000.

BUFFALO, N. Y.—Francis G. Ward, Comr. Pub. Wks., opened bids Jan. 23 for constructing sewer in Merrimac and Mildred Sts., across Englewood Ave. and in Devereaux Ave. Miller & Franklin were lowest bidders, at $19,200.

ASBURY PARK, N. J.—We are officially advised that the New Jersey Contracting & Engineering Co., Badger and Bigelow Sts., Newark, N. J., was lowest bidder, at $9,056, for constructing about two miles of pipe sewers. Bids received Jan. 26. John L. Coffin is Supt., Dept. Water and Sewers.

CAMDEN, N. J.—Bids are asked by the Committee on Streets and Highways until 8 p. m., Feb. 5, for furnishing labor and material for constructing sewer in Princess Ave., from Kaighn Ave. to Park Boulevard. Edward Francis is Chn. Com. on Streets and Highways. L. E. Farnham is City Engr.

MERCHANTVILLE, N. J.—We are officially advised that bids were received Jan. 12 for constructing (a) system of sanitary sewers, (b) with siphon line abandoned, (c) with gravity main, as follows: Hawman Bros., Reading, Pa., (a) $94,437, (b) $89,619, (c) $93,921; STEVENS-HEWITT ENGINEERING CO., 13 Park Row, New York, (a) $66,466, (b) $62,687, (c) $65,156 (awarded contract); Callahan & Chamberlin, Elizabeth, N. J., (a) $104,201, (b) $97,451, (c) $102,625, and Charlton & Weston, Yonkers, N. Y., (a) $97,937, (b) $87,437, (c) $89,742. A. W. MacCallum, 26 South Third St., Philadelphia, Pa., is Chn. Sewerage Com.

PLAINFIELD, N. J.—PETER MORGAN, of Poughkeepsie, N. Y., has been awarded contract for extending the Southside sanitary sewer. Work will be started in the spring. WARREN TRAVELL has been awarded contract for installing pumping station on Randolph Road. The Ingersoll-Rand Co. pump will be installed. Andrew J. Gavett is City Surv. and Street Comr.

ALTOONA, PA.—The Board of Public Works received bids Jan. 18 for constructing two sewers from Saupp & Dhrew, Isaac Bender and J. L. Wilson, all of Altoona, and from D. J. Wills, of Williamsburg, Pa. Harvey Linton is City Engr.

BRADFORD, PA.—The estimated cost of building flood wall in the Fourth Ward is $1,835,737, and of constructing sewer in Congress St., $5,116. E. Bannon is City Engr.

ERIE, PA.—DAVID JONES has been awarded contract for constructing sewers in Cascade and 24th Sts. The contract for constructing sewers in 25th St. has been let to DENNIS O'BRIEN. JOSEPH McCORMICK & BRO. have been awarded contract for laying sewer in North Park Ave. B. E. Briggs is City Engr.

SCOTTDALE, PA.—The city will issue $24,000 of bonds for completing sewer system. L. R. Eicher is Chn. Sewer Com.

HAGERSTOWN, MD.—It is reported that a company is being organized by Hagerstown capitalists for constructing a local sewerage system. Estimated cost, $1,000,000. It is also reported that the company has asked for franchise to install water-works system in Williamsport, Md.

WYTHEVILLE, VA.—The WYTHEVILLE SANITARY CO. has been awarded contract for constructing a sewer system in this city. A. F. Brown, at Culpepper, Va., is Engr.

McMECHEN, W. VA.—Plans and specifications for constructing local sewerage system are being prepared by C. C. Smith, C. E., Reilly Bldg., Wheeling, W. Va. Estimated cost, $20,000.

ORANGEBURG, S. C.—Bids are asked by Board of Sewerage Commissioners until noon, Feb. 28, for constructing sewerage system. L. H. Wannamaker is Secy. Bd. Sewerage Comrs. Edward Hawes, Jr., is City Engr. (Advertised, Engineering News.)

ATLANTA, GA.—Bids are asked until 3 p. m., Feb. 18, for constructing sewers, curbs, sidewalks, etc., during present year. R. M. Clayton is City Engr. (Advertised, Engineering News.)

ALEXANDRIA, LA.—The city contemplates extending the sewer system. Cost, $16,000. F. S. Hoyt is City Engr.

CROWLEY, LA.—It is reported that a new sewer system will be constructed.

SHREVEPORT, LA.—Plans and estimates for constructing sewer in the Silver Lake section of the city are being prepared by W. E. Martin, City Engr. Cost, $60,000.

JOHNSON CITY, TENN.—The City Council on Jan. 17 decided to construct a sewerage system. Cost, $10,000. Work will be started soon.

WINCHESTER, KY.—Sewers and septic disposal plant will be constructed. Estimated cost, $40,000. Dr. J. L. Webber is Chn. Sewer Comrs.

CHILLICOTHE, OHIO.—Plans and estimates for constructing 6,500 ft. of 8 and 10-in. sanitary pipe sewer laterals in various streets, have been approved by the City Council. Estimated cost, $6,100. H. M. Redd is City Engr.

CINCINNATI, OHIO.—John E. Mahoney, 79 Whittier St., was low bidder for constructing 1,750 lin. ft. of brick sewers (average cut, 10 ft.) in ravine west of Morrison St., at $6,997, and 2,225 lin. ft. of 12, 18 and 21-in. pipe sewers (average cut, 12 ft.) in White St., at $6,310. Bids were received by Board of Public Service Jan. 24. M. J. Keefe is Clk. Bd. Pub. Service. C. N. Dannenhower is City Engr.

COLUMBUS, OHIO.—The city contemplates constructing a main relief sewer on Washington Ave., and a sanitary sewer on the West Side. Edw. F. McGuire is Secy. Bd. Pub. Service. Henry C. Maetzel is City Engr.

COSHOCTON, OHIO.—It is reported that new sewers will be constructed in the McClain addition.

DAYTON, OHIO.—It is reported that WILLIAM McCARTHY has been awarded contract for laying sanitary sewers in District No. 4, at $57,792. Robert E. Kline is City Engr.

MIAMISBURG, OHIO.—Plans are being prepared by G. W. Riley, C. E., Miamisburg, for constructing a five-foot storm sewer.

NORWOOD (Cincinnati Post-office), OHIO.—Bids are asked by the Board of Public Service until noon, Feb. 2, for the improvement of several streets by grading, macadamizing roadway, constructing concrete curbs and gutters, and necessary crosswalks, culverts and drains. J. A. Stewart is City Engr., 712 Traction Bldg., Cincinnati, Ohio. L. H. Gebhart is Clk. Bd. Pub. Service.

STEUBENVILLE, OHIO.—The City Council has accepted plans for constructing sewerage system in Follansbee. Sewers will be laid in all the streets with Ohio St. as the dividing line, the sewers to be drained east and west from this street. Lateral sewers will be laid every 50 ft. Each sewer will drain two lots. The main sewers will be on Main and Virginia Sts., and provision will be made later for the new streets which have been recently graded on the hillside. Work will be started in the spring.

TOLEDO, OHIO.—The Board of Public Service is preparing plans for constructing a relief sewer in Detroit Ave., to be six feet in diameter. F. I. Consaul is Ch. Engr. Bd. Pub. Service.

YOUNGSTOWN, OHIO.—Patrick Grady was low bidder for constructing sewers in Hazel and West Federal Sts. Gartland Bros. were low bidders for constructing sewers in Fulton and Foster Sts.

GREENTOWN, IND.—Bids are asked for constructing a sanitary sewer system. Cost, $50,000.

CARBONDALE, ILL.—It is reported that several extensions are to be constructed to the sewer system.

STERLING, ILL.—The Board of Local Improvements have passed resolutions authorizing construction of the Summit and East End sewer systems. Estimated cost, $42,000.

WAUPACA, WIS.—W. G. Kirchoffer, Consult. Engr., is preparing plans for a local sewer system to be constructed in the spring.

DES MOINES, IOWA.—Bids are asked by Board of Public Works until Feb. 6 for constructing a 12-in. vitrified pipe sewer. George D. Dobson is City Engr.

We are officially advised that the Board of Public Works received bids Jan. 21 from local contractors for constructing a 30-in. vitrified clay pipe sewer from center of Ninth and Thompson Sts. to a junction with the east side intercepting sewer in Pennsylvania Ave., a distance of 1,364 lin. ft., as follows: J. C. Likes, $4,187; Christie Construction Co., $5,592; Day & Smith, $4,297; P. J. Griffin & Co., $4,297; Shepard & Hanrahan, $4,815; King, Lambert Construction Co., $4,228; James Horrabin & Co., $4,528; Cook Construction Co., $4,692, and A. P. Herrick, $4,638.

BELLE PLAINE, IOWA.—The city has $5,000 to spend on constructing a sewer outlet this season.

OTTUMWA, IOWA.—The City Council has under consideration constructing sewer extensions in the following streets: Mill, Cass, Wapello, McLean, Benton, Clay and Blackhawk Sts., and Blake's branch sewer. C. R. Allen is City Engr.

CROOKSTON, MINN.—Bids are asked by A. M. Childs, City Clk., until Feb. 12 for constructing vitrified clay pipe sewers and manholes in various streets.

ST. PAUL, MINN.—The Board of Public Works rejected bids received Jan. 31 for constructing sewers in Weide St., Hawthorne Ave., Edgerton and Maryland Sts. Bids were received as follows: A. C. Schreiter & Co., $24,371; Ryan & Johnson, $24,700; Nicholas Feyer, $24,963; James Forrestal Co., $27,980, and John Lind, $30,000. New bids will be advertised for soon. Estimated cost, $19,650. L. E. Rundlett is City Engr.

ST. PAUL, MINN.—Bids are asked by Board of Public Works until 2 p. m., Feb. 4, for constructing sewers in Weide, Hawthorne and Payne Aves., and in Edgerton St. R. L. Gorman is Clk. Bd. Pub. Wks. L. E. Rundlett is City Engr.

SALINA, KAN.—It is reported that new sewers are to be constructed in Third St.

WICHITA, KAN.—All bids received Jan. 21 by R. N. Dorr, City Clk., for constructing Wichita Storm Water Sewer No. 5 have been rejected. New bids are asked until Feb. 15. A. Brown is City Engr.

LINCOLN, NEB.—DOBSON & GARDNER, of this city, have been awarded contract for constructing new sewers.

JOPLIN, MO.—The City Council has ordered about two miles of sewer extensions constructed in various streets.

FAYETTEVILLE, ARK.—Plans and specifications are being prepared by Burns & McDonnell, Engrs., Dwight Bldg., Kansas City, Mo., for constructing system of sanitary sewers in this city.

MENA, ARK.—The City Council has decided to install a new sewer system.

OAKLAND, CAL.—The Board of Public Works has awarded contracts for constructing sewers as follows: C. D. VINCENT, brick sewers in 45th St., Lawton Ave., 51st St. and Manila Ave., at $62,710; brick sewers in 36th, Market, 45th, West and Grove Sts., at $62,206. The CONTRA COSTA CONSTRUCTION CO., concrete sewer in Adeline St. from Temescal Creek to the northern city line, at $17,584. WILLIAM HEAFY, ironstone pipe sewers in San Pablo Ave. and Brush St. from 22d to 29th Sts., at $11,659. The ATLANTIC, GULF AND PACIFIC CONSTRUCTION CO., sewer extension in 22d St., at $95,645. JAMES A. McMAHON CO., sewer extension in 36th St. F. C. Turner is City Engr.

SACRAMENTO, CAL.—New lateral sewers are to be constructed in 27th, 28th, H and I Sts. M. J. Desmond is City C'k. George Randle is City Surv.

SANTA MONICA, CAL.—Plans are being prepared by Thomas H. James, City Engr., for constructing new drains.

EDMONTON, ALTA.—The MACOMB SEWER PIPE CO., Macomb, Ill., has been awarded contract for furnishing sewer pipe to the city, at $79,000. John Stocks is Deputy Minister, Dept. Pub. Wks. P. P. Kelly is City Engr.

CARTIERVILLE, QUE.—Bids are asked until noon, Feb. 4, by Louis Boyer, Secy.-Treas., for constructing drainage system. F. C. Laberge is Engr., 71a St. James St., Montreal, Que.

SYDNEY MINES, N. S.—L. LIVINGSTON has been awarded contract for constructing first section of the sewer system. J. G. Campbell is Town Engr.

NIAGARA FALLS, ONT.—T. E. FERRIS has been awarded contract by the International Railway Co. for constructing 235 ft. of sewer on Front St. to connect the new Bridge St. station with the Park St. sewer. The excavation will be practically all rock work. Thomas Pumfray is Engr., 1026 Niagara St., Buffalo, N. Y.

STREETS AND ROADS.

The names of parties awarded contracts are printed in capital letters.

ALBANY, N. Y.—Bids are asked by Board of Contract and Supply, until 3 p. m., Feb. 4, for improving Elk St., from east line of Quail St. to the west line of North Lake Ave. The work includes grading, curbing and paving carriageway with vitrified paving blocks; repairing and laying sidewalks with flags and vitrified bricks, and building receiving basins. Isidore Wachsman is Clk., Bd. of Contract and Supply. Walter E. Mellus is City Engr.

BUFFALO, N. Y.—Bids will soon be asked for repaving Ganson St., from Michigan St. to Hamburg Turnpike. Francis G. Ward is Comr. Pub. Wks.

Henry P. Burgard, 560 Walden Ave., Buffalo, was lowest bidder on specification "A," for repaving Wadsworth St. and paving two feet on each side of repaving, at $5,700. F. V. E. Bardol, 401 Morgan Bldg., Buffalo, was lowest bidder for repaving Sweet Ave., Lovejoy and Curtis Sts., at $8,900. Bids were opened Jan. 23 by Francis G. Ward, Comr. Pub. Wks.

NEWBURGH, N. Y.—The Board of Public Works, at a meeting held Jan. 21, rejected all bids received for paving Lander St., from Broadway to South St.; Water St. and Le Roy Pl., from Broad to Liberty Sts. Everett Garrison, City Engr., was directed to change specifications. Bids are asked for paving Lander St. with asphalt blocks, 3 × 5 × 12 ins., on 5-in. concrete base. Bids are also asked for paving Water St. and Le Roy Pl. with Hassam pavement.

BROOKLYN, N. Y.—Plans and estimates for opening Flatbush Ave. extension from Fulton St. to Nassau St. have been submitted by Bird S. Coler, Pres. Boro. of Brooklyn, to Board of Estimate and to Herman A. Metz, Comptroller. The cost of opening the new street and grading, curbing, paving and regrading the streets which intersect is $100,000. The new street is to have cement sidewalks and granite pavement 20 ft. out from the curb on each side. The opening of this extension will require regrading on many intersecting streets, which, in turn, will require new sidewalks to be laid and new pavement put in. The sections so affected will be Concord St., from the extension to Duffield St.; Tillary St., from Bridge to Gold Sts.; Bridge St., from a point 50 ft. north of Concord St. to Tillary St.; Chapel St., from the extension to a point 145 ft. west, and Duffield St., from a point 260 ft. north of Tillary St. to Johnson St.

NEW YORK, N. Y.—Bids are asked by John F. Ahearn, Pres. Boro. of Manhattan, until 3 p. m., Feb. 11, for regulating and paving with asphalt blocks and wood blocks on concrete foundation, various streets in Boro. of Manhattan.

Bids are asked by Bird S. Coler, Pres. Boro. of Brooklyn, until 11 a. m., Feb. 13, for regulating, grading, etc., sidewalks on various streets in Boro. of Brooklyn. Bids are also asked for furnishing materials for road repair.

The Board of Estimate and Apportionment on Jan. 25 authorized an appropriation of $3,000,000 for repaving during the present year. The Borough of Brooklyn is to receive $1,000,000; Borough of Manhattan, $1,000,000; Borough of The Bronx, $350,000; Borough of Queens, $350,000, and Borough of Richmond, $300,000.

The Motor Car Roadway Co. has been organized, with $10,000,000 capital, for constructing a private automobile toll road from the 42d St. ferry, New York, through the Jersey meadows and northern New Jersey, to Tuxedo, N. Y., about 45 miles.

SYRACUSE, N. Y.—The Common Council has decided to grade Kirkpatrick St. F. J. Schnauber is City Engr.

CLINTON, N. J.—It is reported that a macadam road across the township will be constructed.

NONESSEN, PA.—Bids are asked until noon, Feb. 25, for grading, curbing and paving about 11,350 sq. yds. of paving, with vitrified brick, hillside block or asphalt block. J. F. Irwin is Boro. Engr. (Advertised, Engineering News.)

NORTH BRADDOCK (Braddock post-office), PA.—Bids are asked by C. A. Stewart, Boro. Engr., Municipal Bldg., Jones Ave., until 3 p. m., Feb. 4, for the improvement of Ridge Ave. The work requires about 1,000 cu. yds. grading, 4,200 ft. dressed curb, 150 ft. rough curb and 5,700 sq. yds. brick paving.

FREDERICK, MD.—The County Commissioners have authorized Oscar B. Coblentz, Deputy County Surv., to make surveys and estimate cost of paving the square around the court-house, embracing portions of West Church, Court and Record Sts. and all of Counsel St., with vitrified brick. Estimated cost is between $9,000 and $10,000.

CHARLESTON, W. VA.—Bids are asked by E. E. Hood, City Recorder, until Feb. 16, for constructing portion of sewerage system. The work consists of about seven miles of terra cotta pipe, reinforced concrete and brick sewers, from 8 to 72 ins. in diameter. Estimated cost, $175,000. T. Chalkley Hatton is Ch. Engr., at Wilmington, Del.

LAGRANGE, GA.—The SOUTHERN PAVING & CONSTRUCTION CO. has been awarded contract for paving Court Sq. and Main St.

NATCHEZ, MISS.—It is reported that bids will soon be asked for paving various streets in this city. Albert C. Jacobs is Chn. Paving Com.

LAKE CHARLES, LA.—The City Council has awarded contract to McGUIRE & STANTON and F. C. YOUMANS for paving with brick the block on West Pujo St., from Ryan to Front Sts. P. OLIVIER & SON have been awarded contract for laying sidewalks and curbing on east side of Ryan St., from Clarence St. to Miller Ave.

Bids will soon be asked for laying sidewalks on both sides of Kirkman St., from Division to Lawrence Sts.

NEW ORLEANS, LA.—Bids are asked by the Board of Commissioners until Feb. 19, for furnishing material and constructing roadway on the Mississippi River front, from Bienville to Barricks St. Road is to be constructed of small granite-block pavement laid on concrete foundation, or of square granite-block pavement. Hugh McCloskey is Pres. Bd. Comrs. A. C. Bell, 506 Hibernia Bank Bldg., New Orleans, is Engr.

Bids are asked by National Realty Co., Ltd., 401 Camp St., New Orleans, for filling and grading 40 lots, starting at a point about 750 ft. back of Freret St. The work is a continuance of Audubon Place Park.

LONE MOUNTAIN, TENN.—Bids will soon be asked by County Pike Commissioners for constructing five miles of pike road, from Lone Mountain to Springdale. Plans and specifications are being prepared by Moreland & Moses, C. E., at Knoxville, Tenn. Dr. William Day is Chn. County Pike Comrs.

LOUISVILLE, KY.—Bids will soon be asked by Board of Public Works for grading and paving seven alleys with vitrified-block pavement. Estimated cost, $15,000. J. P. Claybrook is City Engr.

BURNSIDE, KY.—BEECHER SMITH, of Somerset, Ky., has been awarded contract for constructing two miles of concrete sidewalk.

MARTINS FERRY, OHIO.—It is reported that West Jefferson St. is to be extended and paved.

MASSILLON, OHIO.—Bids will be asked in the spring for grading Guy and Hill Sts. and for graveling Duncan and various streets. Harold Howard is City Engr.

COITSVILLE, OHIO.—Bids are asked by Trustees of Coitsville Township at office of S. D. L. Jackson, Youngstown, Ohio, until 10 a. m., Feb. 2, for the improvement of the McGuffey Road from Bond St. on the line between Youngstown and Coitsville Townships to the North and South Center Road in said township, a distance of about 13,500 ft., by grading and surfacing old roadbed.

INDIANAPOLIS, IND.—The Board of Public Works has taken final action and bids will soon be asked for the following improvements: Bitulithic roadway between Talbott and Central way in 17th St., from L[illegible] R. R. tracks to Martin[illegible] roadway and brick gutters [illegible] Talbott to Central Aves., [illegible] Ave. to Lake Erie & We[illegible] asphalt roadway in Jackso[illegible] way in Pearl St.; graded [illegible] walks in Barnes Ave., from [illegible] and asphalt roadway in S[illegible] H. Miller is City Engr.

The CITY CEMENT CO. [illegible] been awarded contract for paving Indi[illegible] St.

CROWN POINT, IND.—[illegible] the County Commissioners [illegible] are asked by [illegible] for constructing various g[illegible] noon, Feb. 4, [illegible] John Township. A. Johnson [illegible] roads in St. [illegible] County Audr.

EVANSVILLE, IND.—The [illegible] Works has ordered the City [illegible] rd of Public [illegible] gineer to estimate cost of improving v[illegible] city streets and alleys with brick, as[illegible] and Wadsworth macadam.

LAPORTE, IND.—Bids a[illegible] County Commissioners, until [illegible] asked by the [illegible] a. m., Feb. 16, for constructing 2,435 ft. [illegible] macadamized road in Michigan Township. [illegible] arles H. Miller is County Audr.

RENSSELAER, IND.—Bid[illegible] the County Commissioners, [illegible] are asked by [illegible] noon, Feb. 12, for constructing system of [illegible] cadam roads in Carpenter Township.

TERRE HAUTE, IND.—Bi[illegible] Board of Public Works for [illegible] are asked by [illegible] constructing new pavements. Herbert Briggs [illegible] is Secy., Bd. Pub. Wks.

WINCHESTER, IND.—Bid[illegible] County Commissioners, until 1 p. m., Feb. 7, for grading and macadamizing 41,820 ft. of roads. Mack Pogue is County Audr.

LANSING, MICH.—The City Council has ordered Franklin Ave. paved with brick on gravel foundation, 1,350 ft. long and 45 ft. wide. Estimated cost, $12,110. H. A. Collar is City Engr.

DANVILLE, ILL.—Buchanan and other streets are to be paved and improved.

GLENCOE, ILL.—It is reported that the city will construct about one mile of macadam boulevard.

HILLSBORO, ILL.—Main St. is to be paved. Cost, $34,000.

COLETA, ILL.—FRANK BUSHMAN, of this city, has been awarded contract for constructing new macadam streets.

BEAVER DAM, WIS.—The CONCRETE CONSTRUCTION CO., Green Bay, Wis., has been awarded contract for paving in this city, at $20,500.

DES MOINES, IOWA.—Bids are asked by Board of Public Works, until Feb. 6, for paving and curbing West 16th and other streets. George D. Dobson is City Engr.

O. P. HERRICK was awarded, Jan. 22, by the City Council, contract for paving various streets and alleys, at $1.77 per sq. yd. for paving, 10 cts. per lin. ft. for oak curbing, and 37 cts. per lin. ft. for stone curbing.

NEODESHA, KAN.—Bids are asked until Feb. 14, by J. J. Carroll, City Clk., for furnishing material and constructing brick pavement and concrete curb. Burns & McDonnell are Engrs., 700 Dwight Bldg., Kansas City, Mo.

FORT SCOTT, KAN.—Bids are asked until 5 p. m., Feb. 5, for grading and macadamizing Holbrook St. J. O. Brown is City Clk.; U. S. Storer is City Engr.

ST. LOUIS, MO.—Bids are asked by Board of Public Improvements, until noon, Feb. 12, for improving various city streets. Estimated cost, $1,000,000. A. J. O'Reilly is Pres. Bd. Pub. Improvements. Charles K. Talbert is C. E., Bd. Pub. Improvements.

DALLAS, TEX.—The TEXAS BITULITHIC CO. has been awarded contract for paving various city streets.

HOUSTON, TEX.—Plans are being prepared by the City Engineer for paving Liberty Ave. with brick.

TACOMA, WASH.—Various streets in Districts No. 328 and 372 will be paved. Estimated cost, $142,682. Frank L. Davis is City Engr.

PORTLAND, ORE.—K. G. LUNDSTROM has been awarded contract for laying cement walks in front of W. C. Alvord's property. The work consists of six blocks, between East Seventh and East 13th Sts., and Thompson and Brazee Sts., and covers about 10,000 lin. ft. Estimated cost, $10,000. Douglas W. Taylor is City Engr.

PASADENA, CAL.—The contract for grading, curbing, guttering and oiling Logan St. has been awarded to the HILLSIDE CONSTRUCTION CO., at $3,505. One other bid was submitted by Thompson & Doutanville. S. F. Pearson is City Engr.

VISALIA, CAL.—The WORSWICK PAVING CO., of this city, has been awarded contract for paving South Court and South Gordon Sts. M. J. Byrnes is City Engr.

WINNIPEG, MAN.—Bids are asked by the Board of Control, until noon, Feb. 28, for supplying from 3,000 to 5,000 tons of asphalt for street paving. H. N. Ruttan is City Engr. Magnus Peterson is Secy., Bd. of Control.

Bids are also asked for constructing a movable asphalt plant.

MANUFACTURING PLANTS.

The names of parties awarded contracts are printed in capital letters.

LISBON FALLS, ME.—The Androscoggin Mfg. Co., Lisbon Falls, will shortly erect a new worsted mill. The mill, when completed, will give employment to more than 200 people.

BOSTON, MASS.—C. A. DODGE & CO., 8 Beacon St., have the contract for a 2-story brick addition to the factory, in South Boston, of the U. S. Fastener Co., 95 Milk St., plans for which were made by H. S. Kimball, Arch., 101 Tremont St.

WORCESTER, MASS.—Cutting, Carleton & Cutting, Archs., 44 Front St., have let contract to LOUIS CODERRE, Jr., 17 Prescott

St., for a [illegible]ry brick factory and store building, 61 [illegible] ft., for Jennie Goldberg, to be erected at [illegible] Water St., at $17,000.

NEW BE[illegible]D, MASS.—It is reported that a new [illegible]-shed is to be built in connection with [illegible] Whitman mill, and 3,000 looms instal[illegible] the new plant. There are at present [illegible] looms in the mills, and these are to [illegible]moved to the new addition, and 1,300 [illegible] ones put in. In the room now occupi[illegible] the looms in the present mill ring [illegible]ing frames will probably be installed.

FITCHBU[illegible] MASS.—George R. Wallace and associa[illegible] will erect a cotton-yarn mill, to cost $1,0[illegible] The power plant will have a capacity o[illegible]00 HP. Frank P. Sheldon & Co., Industr[illegible] Trust Bldg., Providence, R. I., are Archs. [illegible] Engrs.

BLACKS[illegible], MASS. — The American Woolen Co[illegible]templates the building of a mill in the [illegible]g to furnish yarns for the Saranac m[illegible] The new Saranac buildings, hotel and [illegible]nasium, with hall included, are comple[illegible] and it is expected that ground for the mill will be at once staked out. The head office [illegible] the company is at 90 Ames Bldg., Bost[illegible].

WOONSO[illegible]T, R. I.—The Woonsocket Machine & [illegible]ress Co. is contemplating building a large [illegible]dition to the pattern department of the pla[illegible] Plans have been drawn for the new addition, but the contract has not as yet been awarded. The work of building will start in the spring.

PAWTUCKET, R. I.—The Home Bleach & Dye Works is preparing to build an addition to its plant on Branch St. The new building will be 40 × 72 ft., and three stories high, and will be used for mercerizing yarn.

PROVIDENCE, R. I.—It is reported that Herman Waterhouse, for a number of years associated with the Earnscliffe Mills, at Olneyville, has definitely announced his intention of building a new 100-loom mill for the manufacture of worsted. It is understood that Mr. Waterhouse has received $300,000 for his interest in the Earnscliffe Mills, and with options on three different sites in the Olneyville, or woolen district of the city, is now prepared to begin the immediate development of plans matured some time since. The new plant, to be known as the Waterhouse Worsted Mills, will include a main building, 60 × 200 ft., and three stories high. Adjoining will be placed a saw-tooth structure for a weave-shed. It is expected that the new mill will be ready to engage in business before the beginning of the next lightweight season.

BRIDGEPORT, CONN.—The Union Metallic Cartridge Co., East Washington St., has drafted preliminary plans for erection of several additional factory buildings. The first one of the group will be about 150 ft. long and will be located on Barnum Ave. It will be three stories high and will be built of concrete.

The Connecticut Tool Co., Harvard Ave. and Spruce St., will shortly erect an addition. The new factory will be of brick, 45 × 120 ft., with an L about 60 ft. long.

DUNKIRK, N. Y.—J. A. TAYLOR has been awarded the contract for constructing the building of the Dunkirk Steel Tool Co.

BUFFALO, N. Y.—Plans have been filed in the Bureau of Building by the German-American Brewing Co. providing for a 4-story brick and steel stock-house, to be erected at 962 Washington St., at a cost of $25,000.

FORT HANCOCK, N. J.—Bids are asked until 3 p. m., Feb. 25, by the Commanding Officer for installing metal and wood-working machinery and electric motors at the Sandy Hook Proving Grounds. (Advertised, Engineering News.)

CAMDEN, N. J.—Plans are being prepared by architects for an additional story, 52 × 150 ft., for the Highland Worsted Mills, Ninth and State Sts., Camden.

CANONSBURG, PA.—The Penn Facing Mills Co., J. D. Barr, Gen. Mgr., Irwin, Pa., has had plans prepared for a 3-story manufacturing building, 45 × 100 ft., and a 1-story boiler-house, 30 × 45 ft., to be built at Canonsburg.

SCRANTON PA.—A. R. Weinschenk 110 Washington Ave. is preparing plans for a branch factory, 196 × 43 ft., at Virginia, near this city, for F. Korpf & Co., Amsterdam, Holland, one of the largest manufacturers of cocoa in the world. The investment will cost, including the machinery, $100,000. I. G. McAskie is Pres.; Adrian Van De Werk, Holland, Vice-Pres.; M. J. Martin, Gen. Counsel.

ALLENTOWN, PA.—It is reported that the Blanc Stainless Cement Co. will erect a large addition to its plant here and expend $30,000 in improvements.

HARRISBURG, PA.—The Kelker Street Hall, in Harrisburg, has been leased for three years to the Newville Knitting Co., of Newville, Pa. Machinery will be installed in March and it is expected operations will commence April 1. A large Newville plant is being operated by this company.

PHILADELPHIA, PA.—Application for a charter has been filed in Harrisburg by Charles H. Masland & Sons, Amber and Westmoreland Sts., Philadelphia, for incorporation. The company will manufacture carpets and carpet yarns.

S. L. Allen & Co., Fifth St. and Glenwood Ave., are having plans prepared by Evers, Dodge & Day, Drexel Bldg., for an addition to their factory. The addition will have five stories, slag roof, will be built of brick and reinforced concrete, and will cost $100,000.

AMBLER, PA.—Stearns & Castor, Stephen Girard Bldg., Philadelphia, have been commissioned by Mayer & England, 1020 Filbert St., of this city, to prepare plans for a group of factory buildings to be erected at Ambler, at a cost of more than $200,000. The firm at present has plants in Philadelphia, Chicago and New England for the manufacture of electrical devices. It plans to consolidate all the factories at Ambler, where 25 acres of ground have been purchased for the purpose. The plans provide for a 4-story brick factory, 252 × 60 ft., a power plant building, 75 × 100 ft., warehouses, shipping buildings, and a number of workingmen's cottages in the vicinity of the works.

PITTSBURG, PA.—Preparations are being made at the Homestead Steel Works to start work on a new plate mill, which will be the largest in the world. It will be known as the 168-in. mill, rolling plates 168 ins. wide. It will be located near the present plate mills.

BALTIMORE, MD.—The Atlantic Biscuit Co. has been incorporated, with capital of $100,000, to operate bakery, by David W. Laws, 2742 North Charles St.; Henry S. Zell, 1202 North Charles St.; Charles E. Laws, Matthew S. Tyson, Wm. D. Pinkerton and O. F. H. Warner, 15 East Camden St. This company has purchased building on Charles St., between Conway and Barre Sts., and when enlarged will be five stories high, 83 × 170 ft. The plant will have a capacity of 5,000 bbls. of flour a month. Building and equipment will cost about $100,000. Simonson & Pietsch, Archs., American Bldg., Baltimore and South Sts., will prepare the plans and specifications for the improvements.

NORFOLK, VA.—The Norfolk Building Block & Construction Co. will erect a $25,000 plant for the manufacture of concrete building blocks. William Polk is Pres.

WINSTON-SALEM, N. C.—It is reported that the P. H. Hanes Knitting Co. will build another mill, to be four stories high and 75 × 100 ft.

A 3-story factory building will be erected here by the Winston-Salem Vehicle Co., a corporation recently chartered, with a capital of $125,000.

GREENSBORO, N. C.—Proximity Mfg. Co. will build an additional mill, the equipment to be 20,000 spindles and accompanying machinery. Building will be two stories high, with basement, 130 × 500 ft., from plans and specifications by C. R. Makepeace & Co., of Providence, R. I. The company will add several hundred spindles to the White Oak Cotton Mills in order to increase that plant's total to 2,000 looms; 60,000 spindles are in operation at present. Other general improvements will be undertaken in connection with these enlargements, and the expenditures will probably amount to more than $500,000. J. W. Cone is Vice-Pres. of the Proximity Mfg. Co.

SAVANNAH, GA.—The car works of the South Atlantic Car & Mfg. Co., burned at Savannah, will be rebuilt as soon as the insurance adjusters have finished their work. The new plant will be much larger than the old one and more modern in every respect. The insurance on the works amounted to something over $100,000. Frank B. Durden is Pres.; head office is at Waycross, Ga.

AUGUSTA, GA.—At the annual meeting of the stockholders of the Clearwater Bleachery & Mfg. Co., it was practically decided to change the bleachery into a cotton mill, and this will be done as soon as possible. Thomas Barrett, Jr., is Pres.

ATTALLA, ALA.—It is reported that Adolphus Brown, J. R. Brown and B. C. O'Rear will erect grain mill with a capacity for grinding 3,000 bushels daily.

GATE CITY, ALA.—It is reported that the International Power Co., 74 Broadway, New York, N. Y., will establish locomotive works at Gate City, to cost about $3,000,000. J. H. Hoadley is Pres.

BROOKHAVEN, MISS.—Morton & Seavey have awarded contract to the ORLEANS ENGINEERING CO., 713 Macheca Bldg., New Orleans, La., for furnishing equipment for their proposed sawmill.

MEMPHIS, TENN.—The Memphis Soap Co. has been granted a charter under the laws of this State to operate in Memphis, with capital stock of $100,000. The company is in reality successor of Bellis Bros. & Pate. The plant will be enlarged and the output increased.

PADUCAH, KY.—G. W. Robertson Ice Co. has been incorporated to establish ice and cold-storage plant, 50 tons capacity. A 2-story building, 50 × 150 ft., will be erected. About $75,000 will be invested. G. W. Robertson is Pres.; C. L. Robertson, Secy., and G. H. Robertson, Gen. Mgr. The office is at 118 Broadway.

ASHTABULA, OHIO.—It is reported that R. P. Riedenbach will build an addition to his flour mill and will construct a new boiler-house and engine-room.

TOLEDO, OHIO.—Plans are being prepared by Bacon & Huber, 755 Spitzer Bldg., for a new shop and general office building for the Lake Shore Electric Ry. Co. Cost, $200,000. The exact location has not been determined. The officials of the road are considering the towns of Fremont, Norwalk and Sandusky. F. J. Stout, Norwalk, is Gen. Mgr.

STEUBENVILLE, OHIO.—Work will be started at once at Steubenville building ten new finishing-mills as additions to the plant of the La Belle Steel Co. These will cost about $1,000,000 and will double the capacity of the Steubenville works.

ZANESVILLE, OHIO.—J. P. Taylor, Arch., 328 Masonic Temple, has prepared plans for rebuilding the brick plant for the South Zanesville Sewer Pipe & Brick Co. J. C. Bolin, Sr., is Pres. and Gen. Mgr.

CINCINNATI, OHIO.—Robert S. Woodward has made plans for a manufacturing plant and power building for the Remmers Soap Co., to cost $100,000.

Samuel Hannaford & Sons, Archs., have prepared plans for an addition to manufacturing building for the Blackburn-Nolan Varnish Co.

COLUMBUS, OHIO.—We are officially advised that bids are to be asked at once for constructing factory for the Vehicle Apron & Hood Co. The building will be of mill construction, stone, brick and wood, 41 × 188 ft., and will cost about $40,000. E. H. Rickett, 44 Columbia Bldg., is Arch.

MASSILLON, OHIO.—Richard Griesser, Arch., Schiller Bldg., Chicago, Ill., has let the following contracts for a 1 and 2-story brick brewery addition, 60 × 140 ft., for the Stark & Tuscarawas Brewing Co., J. W. Shuster, Pres., Massillon: Masonry, JOHN MEINHART & SON, 39 South Erie St., Massillon; carpenter work, G. W. CURLEY, 358 South Erie St., Massillon. Estimated cost, $30,000.

CANTON, OHIO.—W. S. Epperson, Arch., 506 East Main St., Alliance, Ohio, has plans ready for bids for an addition to manufacturing plant of the Carnahan Stamping & Enameling Co. J. E. Carnahan is Pres.; R. E. Bebb is Mgr., Canton.

NORWOOD, OHIO.—Plans have been prepared by Tietig & Lee, 716 Commercial Tribune Bldg., Cincinnati, for a 2-story and basement brick and concrete or mill construction lithographing plant, 125 × 50 and 250 × 70 ft., with two wings, to be built at Norwood for the Henderson Lithograph Co. W. D. Henderson, 418 Sycamore St., Cincinnati, is interested. Estimated cost, $100,000.

ELKHART, IND.—E. Hill Turnock, Arch., 92 La Salle St., Chicago, is preparing plans for a factory building for the Davis Acetylene Co., Elkhart, to cost $25,000.

MUNCIE, IND.—The Ball Bros. Mfg. Co. has decided to erect a large addition to its factory in this city.

GRAND RAPIDS, MICH.—Plans have been completed by Osgood & Osgood, 521 Widdicomb Bldg., and they will soon take bids for a 3-story and basement printing factory, 50 × 170 ft., for the White Printing Co., 2 Lyons St. Brick, stone and reinforced concrete will be used in construction, and the cost will be about $30,000.

GRAND RAPIDS, MICH. — CHARLES HOERTZ & SON have been awarded a contract for constructing a new mill for the American Land Plaster Co. The contract price is over $70,000, and the mill, when equipped, will cost $100,000.

ST. LOUIS, MO.—The St. Louis Brass Mfg. Co., 1112 Market St., will erect a 5-story and basement building. About $30,000 will be expended in building and equipment. Edwin F. Guth is Pres. and Gen. Mgr. J. L. Wees, Commercial Bldg., is Arch.

VAN BUREN, ARK.—The Van Buren Foundry, James Morrell, proprietor, will rebuild plant recently reported burned. It is proposed to erect a brick building, L-shaped, 127 × 32 × 30 ft. About $35,000 will be expended in building and equipment. Johnson Bros. are Archs.

AMITY, ARK.—R. Kilgore has purchased site on which to erect sawmill, with capacity of 30,000 ft., and planing mill, with a capacity of 50,000 ft.

LITTLE ROCK, ARK.—The Thomas Gin-Compress Co., Chicago, has decided to establish a plant in Little Rock, Ark., for the manufacture of gin compresses and folders. H. S. Kennedy is Secy.; Dr. D. A. Thomas is Gen. Mgr.

SINTON, TEX.—It is reported that Charles P. Taft, of New York, is considering the establishment of a cotton mill at Sinton, near which place he owns a ranch on which cotton will be cultivated to supply the plant.

ALBUQUERQUE, NEW M.—It is reported that the Rio Grande Woolen Mills will shortly install a number of knitting machines in their plant here.

BRIDAL VEIL, ORE.—We are officially advised that the following contracts have been let for establishment of mill for the Bridal Veil Lumber Co.: For dry kilns, NORTH COAST DRY KILN CO., corner of 15th St., West, and Atlanta St., Seattle, Wash.; for frame buildings, MOUVANT & WATSON, Hoquiam, Wash.; for concrete work, MARSHALL BROS., Commercial Bldg., Portland, Ore. The planing and lumber shed will be of frame construction and the boiler-house, blacksmith shop and pump-house will be of concrete construction. Estimated cost, $75,000. J. S. Bradley is Mgr.; W. A. Campbell, Portland, is Arch.

SAN JUAN, CAL.—Plans have been prepared for building cement plant for the San Juan Portland Cement Co. Brown, Wilson & Co., 111 Broadway, New York, and San Francisco, are Mgrs.

SHERBROOKE, QUE.—The Canadian Pacific Ry. Co. has purchased a large tract of land here on which to erect a new roundhouse, additional sidings, a new freight-shed and an addition to the depot. Work will be commenced as early in the year as possible. W. F. Tye is Ch. Engr., Montreal, Que.

MONTREAL, QUE.—Fred. Eaton, Pres. of the American Car & Foundry Co., Berwick, Pa., is at the head of a syndicate formed here, with a capital of $5,000,000, to build car-construction shops in Montreal West. The plant will cost $500,000.

TORONTO, ONT.—R. G. Cluff & Co., Toronto, will commence the erection of three large factories on St. Helens Ave. soon. Estimated cost, $150,000.

Gordon-Mackay Co. have plans for a 5-story factory building, to be erected on Queen St. Estimated cost, $65,000.

STRATHCONA, ALTA.—The contract for the improvements and extensions to the Strathcona Brewing Co.'s plant have been let to CLAYSON & CO., Chicago, Ill., at $69,445.

VICTORIA, B. C.—The Vancouver branch of the British Columbia Marine R. R. is to be enlarged during the year by the addition of large machine shops. Extension of the works will also be made at Esquimalt, B. C. Harry F. B. Bullen is interested.

MISCELLANEOUS CONTRACTS.

The names of parties awarded contracts are printed in capital letters.

DITCH.—Sidney, Iowa.—RANKIN & COWDEN have been awarded contract for digging the Nishnabotna ditch, east of Hamburg, six miles long, for $47,319.

WHARF.—Fredericton, N. B.—The contract for the rebuilding of the Ketchum wharf in Kings County has been awarded to GEORGE APPLEBY, of Nauwigewank, N. B.

DREDGING.—New London, Conn.—Bids are asked until noon, March 2, by Maj. Harry Taylor, Engrs., for dredging in New Haven Harbor, Conn. (Advertised, Engineering News.)

LEVEE.—Walnut Hill, Ark.—Bids are asked until Feb. 11 by W. R. Salmon, Pres., Long Prairie Levee District, Lafayette County, for construction of approximately 500,000 cu. yds. of enlargement and new levee work. W. B. Bell is Ch. Engr., Walnut Hill.

DREDGING.—Philadelphia, Pa.—Bids are asked by the Board of Port Wardens, Philadelphia, until 1.30 p. m., Feb. 4, for dredging docks, not belonging to the city, and in the front of docks, not belonging to the city, where city sewers empty. Joel Cook is Pres.

REMOVING ROCK.—New York, N. Y.—Bids are asked until noon, Feb. 11, by J. A. Bensel, Comr. of Docks, for excavation and removal of rock over the site of a proposed bulkhead wall, and outshore from same, between East 65th and East 74th Sts., East River, Boro. of Manhattan.

CRANES.—Portsmouth, N. H.—The Bureau of Yards and Docks, Navy Dept., Washington, D. C., has awarded to the NILES-BEMENT-POND CO., 111 Broadway, New York, contract for furnishing one 40-ton, one 25-ton, and two 15-ton electric traveling cranes, for the Portsmouth Navy Yard, at $18,000.

DREDGING.—Columbus, Ohio.—Bids are asked until noon, Feb. 12, by the State Board of Public Works, for dredging the Miami and Erie Canal between Miamisburg and Middletown, a distance of about eleven miles, estimated at 315,000 cu. yds. of excavation. Charles E. Perkins is Ch. Engr. of Public Works of Ohio.

SEA-WALL.—North Chicago, Ill.—Bids are asked until noon, Feb. 26, for construction of a timber crib, sea-wall around site of power-house at Naval Training Station, Great Lakes, North Chicago. G. A. Converse, Ch. of Bureau of Navigation, Navy Dept., Washington, D. C. (Advertised, Engineering News.)

BUOY SERVICE.—Tompkinsville, N. Y.—Bids are asked by the Light House Inspector, at Tompkinsville, N. Y., until 2 p. m., March 5, 1907, for the work of maintaining all the buoys in the Hudson River between New York City and Troy, N. Y. Specifications may be obtained from Capt. John A. Rodgers, U. S. N., Tompkinsville, N. Y.

SPILLWAY DAM.—San Francisco, Cal.—Plans and specifications for enlarging spillway and building portion of dam known as the Barrier, Yuba River, Cal., as advertised in Engineering News, are on file at office of Engineering News, New York. Major Wm. W. Harts, Engrs., is Secy. of California Debris Comm., 1723 Pine St. Bids are asked until Feb. 8.

READERS' WANTS FOR THOSE IN THE MARKET The readers of ENGINEERING NEWS are constantly in the market for great quantities of machinery, tools and general supplies. While our thousand advertisers are usually able to furnish the material desired, yet there are many things wanted by our readers that are not advertised, although connected with engineering and contracting directly or indirectly. This department (R W) is for this class of inquiries, and we urge our readers to keep us informed. Enclose five cents in stamps and we write to a number of leading manufacturers without further cost. When writing to our advertisers, who are the leaders in their respective lines, **mention Engineering News.** Have you a copy of our Buyers' Guide? **Engineering News Can Help Buyers.**

OAK TANKS.—New York, N. Y.—Ernst Wiener Co., 66 Broad St., New York, desires names of manufacturers of oak tanks.

ROAD ROLLERS.—Apollo, Pa.—A. R. Hilty, Apollo, Pa., desires to communicate with parties selling and renting second-hand road rollers.

ROCK-CRUSHING PLANT.—Fort Smith, Ark.—B. F. Beckman, Engr., M. of W., F. S. & W. R. R. Co., writes us that his company is in the market for a stone-crushing plant.

REINFORCED CONCRETE CATALOGUES, ETC.—Waterville, Me.—H. L. Gilman & Co., Engrs., desire catalogues of materials and equipment for reinforced concrete factory building and power-house.

ARTESIAN WELL PUMPS.—Jeddo, Pa.—J. S. Craigne, Engr., desires information relative to artesian well pumps. He desires an automatic pump to be run by electricity or compressed air, which can be placed in a well, near an artesian well, and force water to a height of 30 ft.

TRACK VELOCIPEDE.—Tempe, Ariz.—We are in receipt of a letter from Lee Perkins, Asst. Engr., M. & P. & S. R. V. R. R. Co., Tempe, Ariz., stating that he desires to purchase a light track velocipede.

STONE CRUSHER, ENGINE AND BOILER.—Norfolk, Va.—S. E. Morris, 607 Law Bldg., Norfolk, Va., writes us that he desires to purchase a second-hand stone crusher, with engine and boiler.

ENGINES, BOILERS, DUMP-CARS, ETC.—Lock Haven, Pa.—C. A. Holloway, 166 Park Place, Akron, Ohio, writes us that he is in the market for a stationary engine, boilers, dump-cars, dummy engine, and about a mile of track.

SAWMILL, CEMENT TOOLS, KETTLES, ETC.—Lexington, Ky.—Buford A. Groves, Lexington, Ky., writes us that he desires to communicate with firms manufacturing sawmills for making plastering lath; also tools for finishing cement sidewalks, and kettles for melting pitch.

STEAM SHOVEL WORK, FILLING.—New Orleans, La.—Bids are asked until Feb. 15 for steam shovel work and filling of trestle on the Baton Rouge branch of Morgan's Louisiana & Texas R. R. and S. S. Co., between the west edge of the swamp and the Atchafalaya River. E. B. Cushing, Gen. Supt. For specifications apply to C. G. Vaughn, Const. Engr., 511 Natchez St., New Orleans. (Advertised, Engineering News.)

CEMENT.—New Orleans, La.—The CAROLINA PORTLAND CEMENT CO. has been awarded the contract by Black & Laird for furnishing 110,000 bbls. of cement for the work to be done on the purification plant at Carrollton and Algiers. The contract has been awarded in connection with the specifications of the Sewerage and Water Board, and represents an investment of $300,000. H. Ball Bowers is the local agent for the company.

ORDNANCE.—Washington, D. C.—The Bureau of Ordnance, Navy Dept., Washington, D. C., has made the following awards for shell (bids opened Jan. 9): AMERICAN & BRITISH MFG. CO., Bridgeport, Conn., 20,000 3-in. .50 calibre forged steel common shell, $2.49 each; total, $49,800. UNITED STATES RAPID FIRE GUN & POWDER CO., Derby, Conn., 25,000 3-in. .50 calibre target shells, $1.64½ each; total, $41,125. BETHLEHEM STEEL CO., South Bethlehem, Pa., 40,000 3-in. .50 calibre forged steel common shell, $2.50 each; total, $90,000.

CONTRACT PRICES.

STEAM PUMPS.—Meadville, Pa.—Bids were received as follows by Henry Ellsworth, Supt. Light and Water Dept., on Jan. 16, for furnishing and erecting complete on foundations at the pumping station in Vernon Township, a triple expansion, condensing direct-acting steam pump of 2,500,000 gallons daily capacity; also one pump of same type of 3,000,000 gallons capacity: (A) Marine Engine & Machine Co., 126 Liberty St., New York; (B) The Nordberg Mfg. Co., Milwaukee, Wis.; (C) Henry R. Worthington, 114 Liberty St., New York; (D) The Laidlaw-Dunn-Gordon Co., Cincinnati, Ohio; (E) The D'Olier Engineering Co., 121 South Eleventh St., Philadelphia; (F) Fred. M. Prescott Steam Pump Co., Milwaukee, Wis.; (G) Epping-Carpenter Co., Pittsburg, Pa.; (H) John H. McGowan Co., Cincinnati, Ohio; (J) Pratt Iron Works, Dayton, Ohio:

BIDS RECEIVED ON JAN. 16 AT MEADVILLE, PA., FOR STEAM PUMPS.

	Gallons. Capacity per 24 hrs. in. million.	Type.	Duty per 1000.lb Dry steam based on plunger Displacement in million foot lbs.	Weight.	Steam cylinders. Hign. ins.	Intermed. ins.	Low. ins.	Plunger ins.	Stroke. ins.	Time of delivery.	Price	All condensing—Horizontal.	*Speed
(A)	2½	Crank and fly wheel	125	.....	18	....	24 24	14¼	30	5 Mos.	$17,640	3 cylinder compound 3 single acting. Outside packed plunger (The Goshon Eng.)	230 F
(A)	3	" "	125	.....	20	....	28 28	13	30	"	19,205	3 cylinder compound 3 single acting. Outside packed plunger (The Goshon Eng.)	210 "
(A)	3	" "	145	.....	15	28	42	12¾	30	"	22,435	Triple expansion 3 single acting. Outside packed plunger (The Goshon Eng.)	215 "
(B)	2½	" "	120	125,000	16	....	31	10	36	10 Mos.	15,960	Cross compound Corliss	42 R
(B)	3	" "	120	135,006	17	....	34	10½	36	"	17,000	" " "	42
(C)	2½	Direct acting	135	.....	12	20	34	13½	24	"	17,500	Triple expansion high duty attachment outside center packed	.....
(C)	2½	" "	135	.....	12	20	34	13¾	24	"	17,200	" " " " " plunger and ring	.....
(C)	3	" "	135	.....	12	20	34	14	24	"	18,350	" " " " " outside center packed	.....
(C)	3	" "	135	.....	12	20	34	14	24	"	17,650	" " " " " plunger and ring	.....
(D)	2½	Crank and fly wheel	128	120,000	14½	....	31	9¼	30	5 Mos.	13,100	Cross compound Corliss outside center packed	51 R
(D)	3	" "	128	140,000	16	....	34	10	30	6 Mos.	14,550	" " " " " " "	51 "
(E)	3	Direct acting	91	85,000	12	20	36	15	24	"	11,470	Cranesville Iron Wks. Co. triple expan. " " " " "	114.1 F
(E)	2½	" "	91	80,000	11	18	34	13½	24	"	11,270	" " " " " " " "	114.4 "
(F)	3	" "	96	.....	11½	18	30	14	24	180 Days	12,060	Triple expansion " " " "	132 "
(F)	2½	" "	96	.....	11½	18	30	13	24	180 "	11,810	" " " " " " " "	125 "
(F)	2½	Crank and fly wheel	135	.....	18	....	30	8¼	36	210 "	19,105	Cross compound Corliss " " " "	318 "
(F)	3	" "	120	.....	16	....	30	9	36	235 "	19,350	" " " " " " " "	318 "
(F)	2½	" "	120	.....	15	....	28	8¼	36	210 "	17,845	" " " " " " " "	318 "
(F)	3	" "	135	.....	16	....	32	9	36	235 "	20,950	" " " " " " " "	318 "
(G)	3	Direct acting	95	.....	12	19	33	14	24	4 Mos.	9,650	Triple expansion " " " "	130 "
(G)	2½	" "	95	.....	11	17	30	13	24	"	8,800	" " " " " " " "	125 "
(H)	3	" "	80	52,000	13	18½	38	15	24	120 Days	6,800	" " plunger inside packed " " " "	114 "
(J)	3	" "	85 80	103,900	12	20	36	16	24	4 Mos.	10,465	" " " and ring " " " "	110 "
(J)	3	Crank and fly wheel	120 125	.....	19	....	40	11	30	5 to 6 Mos.	18,218	Cross comp. Corliss, plunger and ring " " " "	45 R
(J)	2½	" "	125	.....	18	....	36	10	30	" "	15,830	" " " " " " " "	45 "

* R—Revolutions per minute.
F—Feet per minute.

STRUCTURAL STEELWORK.—Washington, D. C.—Bids were received on Jan. 23, by the Superintendent of U. S. Capitol Building and Grounds, for structural steelwork for the roof of the House Office Building, as follows: American Bridge Co., Baltimore, Md., $22,600; Interstate Engineering Co., Bedford, Ohio, $22,650; New Jersey-West Virginia Bridge Co., New York, N. Y., $31,016. Price per lb. to govern in making additions and deductions quoted with the above bids: (A) American Bridge Co.; (B) Interstate Engineering Co.; (C) N. J.-West Virginia Bridge Co.: Plain shapes, (A) 2 cts.; (B) 2.005 cts.; (C) 2.50 cts.; shapes punched, web or flange, (A) 2.25 cts.; (B) 2.45 cts.; (C) 2.75 cts.; shapes punched, web and flange, (A) 2.25 cts.; (B) 2.60 cts.; (C) 3 cts.; shapes punched and fitted, web or flange, (A) 2.30 cts.; (B) 2.65 cts.; (C) 3.50 cts.; shapes punched and fitted, web and flange, (A) 2.50 cts.; (B) 2.75 cts.; (C) 4 cts.; curved shapes, Rotunda, (A) 3 cts.; (B) 3.70 cts.; (C) 7 cts.

CIVIL SERVICE EXAMINATIONS

IRRIGATION MANAGER.—Washington, D. C.—An examination will be held by the U. S. Civil Service Commission on March 6 to secure eligibles to fill five vacancies in the position of Irrigation Manager in the Office of Experiment Stations, Department of Agriculture, at salaries of $1,800 to $2,500 a year, and similar vacancies as they may occur. Age limit, 21 years. Application form 1312.

CHIEF ENGINEER.—St. Louis, Mo.—The U. S. Civil Service Commission announces an examination on Feb. 27 to secure eligibles to fill a vacancy in the position of Chief Engineer and Electrician, at $1,800 a year, in the U. S. custom-house and postoffice building, St. Louis, Mo., and vacancies as they may occur in the Custodian Service in any city throughout the United States requiring similar qualifications. Age limit, 18 to 55 years. Application form 1052.

SUPERVISING DRAINAGE ENGINEER.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on March 6, 1907, to secure eligibles to fill three vacancies in the position of Supervising Drainage Engineer in the Office of Experiment Stations, Department of Agriculture, at salaries of $2,000 to $2,500 a year, and similar vacancies as they may occur. Age limit, 21 years. Application form 1312.

ARCHITECTURAL DRAFTSMAN. — New York, N. Y.—An examination will be held by the Municipal Civil Service Commission, 299 Broadway, New York, on Feb. 19-20, at 10 a. m., to secure an eligible for the position of Architectural Draftsman, at $1,500 a year. Applications will be received until 4 p. m., Feb. 5. Age limit, 21 years. This is an extension of time from Jan. 29. Frank A. Spencer is Secy.

ASSISTANT ELECTRICAL AND STEAM ENGINEERS, AND BRIDGE DRAFTSMAN. —Albany, N. Y.—The State Civil Service Commission will hold examinations in all parts of the State Feb. 23 for the following positions: Assistant Electrical Engineer, $600 to $900 and maintenance; Assistant Steam Engineer, $600 to $900 and maintenance; Bridge Draftsman, $1,200 to $1,500. The last day for filing applications for these positions is Feb. 18. The Commission has been unable to secure a sufficient number of eligibles for Bridge Draftsman and Assistant Steam Engineer, and qualified applicants for these positions have excellent chance of appointment. Full information and application forms for any of these examinations may be obtained by addressing the Chief Examiner of the Commission at Albany. Charles S. Fowler is Ch. Examiner.

CHAINMAN.—Albany, N. Y.—The following 20 persons qualified highest for the position of Chainman at New York State Civil Service examination held Nov. 17, 1906:

Thereon Wasson, Springville, N. Y., 95.39.
Wm. D. Hildreth, Alpha Delta Phi House, Schenectady, N. Y., 93.98.
Guy M. Phelps, 159 Ridge St., Glens Falls, N. Y., 93.86.
Leo A. Meron, 1916 5th Ave., Troy, N. Y., 93.64.
Thomas L. Way, 237 North Perry St., Johnstown, N. Y., 93.55.
William A. Stiene, 134 2d Ave., Albany, N. Y., 93.50.
John A. Glominski, 243 Congress St., Troy, N. Y., 93.39.
Harvey N. Scofield, 22 Terry St., Potsdam, N. Y., 93.14.
James E. Percy, 21 2d St., Hoosick Falls, N. Y., 91.83.
Seward D. Hendricks, Phi Delta Theta House, Schenectady, N. Y., 91.68.
Edward Burleigh, Union College, Schenectady, N. Y., 90.59.
Edmund C. Dolliard, 767 Harrison St., Syracuse, N. Y., 90.23.
Henry B. Parker, 50 Lancaster St., Albany, N. Y., 90.16.
Jerry P. Lynch, 1 State St., Potsdam, N. Y., 89.86.
Edwin M. Secrist, 50 Berlin St., Buffalo, N. Y., 89.85.
Louis Wachtel, 42 South Judson St., Gloversville, N. Y., 89.32.
Raymond J. Curtis, Red Hook, N. Y., 89.25.
Park F. Matteson, 515 Grand St., Troy, N. Y., 89.14.
Claudius H. Adams, 122 South Eighth Ave., Mt. Vernon, N. Y., 88.94.
Alphonse Carrera, Cleveland and Guilderland Aves., Schenectady, N. Y., 88.87.

INDUSTRIAL NOTES.

ORTON & STEINBRENNER announce the removal of their Chicago office to 1806 Barland Bldg.

BATES MACHINE CO., announces the establishment of a sales office at 1616 Fisher Bldg., Chicago.

THE J. R. ALSING CO. has been awarded the contract for complete equipment of the Texas Fullers Earth Co., of Dallas, Tex.

THE PLATT IRON WORKS CO. has been awarded the contract for a 3-cylinder, compound high-duty pumping engine for the Masonic Temple, Chicago. This engine will be similar to that in the Fisher Building.

CRANE CO., Chicago, now has its new steel foundry in full running order. In this department steel valves and fittings will be a specialty, and the facilities are such that promptness in the filling of orders for these goods is assured. This addition to the company's varied activities is simply another proof of its efforts to keep abreast, if not a little ahead, of the times.

WELLMAN - SEAVER - MORGAN COMPANY reports receiving the largest order for Gas Producers ever awarded from the United States Steel Corporation. It calls for 64 Hughes Mechanical Gas Producers for its Duquesne steel works. These producers are to be driven by electric motors, and are equal in gas producing capacity to 160 hand-poked producers. The Hughes Mechanical Producers attract the attention of steel makers because they require no hand poking, give a better quality and more uniform supply of gas, and in battery require less room than the hand-poked type of producer.

J. H. WAGENHORST & CO., Youngstown, O., report the following as a partial list of their recent electric blue printer sales: Otis Elevator Co., Yonkers, N. Y.; American Locomotive Co., Paterson, N. J.; Colorado Southern, New Orleans & Pacific Railroad, Beaumont, Tex.; Ajax Manufacturing Co., Cleveland, O.; Eugene Dietzgen Co., Chicago, Ill.; Kearney & Trecker, West Allis, Wis.; Frank T. Shea, San Francisco, Cal.; Evansville & Terre Haute R. R. Co., Evansville, Ia.; D. J. Murray Manufacturing Co., Wausau, Wis.

THE VULCAN IRON WORKS CO., of Toledo, O., manufacturing steam shovels, reports that during the past year it has materially increased the capacity of its plant. New machine tools of the latest and most improved types have been installed, with devices for facilitating the work in the shops. Two large water-tube boilers of 200 HP. each, and an Ingersoll-Rand air compressor with a capacity of 750 cu. ft. have also been added. Another very important feature is the completion of an entirely new and separate shop for doing the repair work. The company reports that it has just ended the most prosperous year in its history, and has even brighter prospects for the present year.

THE CROCKER-WHEELER CO. reports the following as a partial list of recent sales: Bridgeport Malleable Iron Co., Bridgeport, Conn., 1 200-KW. direct current generator, 250 volts, 208 r. p. m.; 1 90-KW., 250 volts, 208 r. p. m. direct current generator. Pittsburg & Baltimore Coal Co., Edna Mine No. 2, Wendel, Pa., 1 300-KW. direct current generator, 575 volts, 150 r. p. m. W. & J. Knox Net & Twine Co., Baltimore, Md., 25 25-HP. DC motors, 230 volts, 120 r. p. m. Bridgeton Electric Co., Bridgeton, Conn., 1 500-KW. DC generator, 550 volts, 750 r. p. m. Alliance Machine Co., Alliance, O., 74 motors ranging from 6 to 100 HP., all of 220 volts. Bosches Troy Laundry, Austin, Tex., 14 motors, ranging from ¼ to 7½ HP., 115 volts, and 1 35-KW. generator, 125 volts.

EXHIBITORS AT THE ANNUAL CONVENTION OF THE ILLINOIS SOCIETY OF ENGINEERS AND SURVEYORS.

Avery Mfg. Co., Peoria, Ill.—Traction engine and plans for drainage ditching, etc.
Austin Drainage Excavator Co., Chicago. —Excavating machine for drainage ditches.
Municipal Engineering & Contracting Co., Chicago.—French excavating machine, concrete mixers and a concrete mixer and spreader for street foundation work.
C. B. Alexander, Clearfield, Pa.—Clamps for repairing broken tapes in the field.
Arnold Co., Chicago.—Map of interurban railway systems of the central states.
Concrete Steel Engineering Co., New York.—Drawings and specifications of the Peoria City bridge.
Scherzer Rolling-Lift Bridge Co., Chicago.—Drawings of the bascule draw of the new city bridge.
Engineering Agency, Chicago.—Bulletins.
J. Thompson & Sons Mfg. Co., Beloit, Wis.—The Thompson gas engine and Burger suction gas producer.
German-American Portland Cement Co., Chicago.
Marquette Cement Mfg. Co., Chicago.
Universal Portland Cement Co., Chicago.
Keuffel & Esser, Chicago.—Surveying and drawing instruments, including a special transit built to the specifications of Prof. L. S. Smith, which were published in Engineering News some time ago.

TRADE PUBLICATIONS.

TRACTION ENGINES [illegible]R DITCHING ETC.—Avery Mfg. Co [illegible] Peoria, Ill. Paper; 8½ x 12 ins.; pp [illegible] illustrated.

These traction engines [illegible] different sizes and types, are shown as [illegible]ted for general agricultural work, for [illegible] plowing, and for hauling grading or [illegible]ating machines in railway, road or ditch [illegible]truction.

TRENCHING MACHINE [illegible]unicipal Engineering & Contracting [illegible] Railway Exchange, Chicago. Pap[illegible] × 10 ins.; pp. 10; illustrated.

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INDUSTRIAL RAILWAY [illegible]QUIPMENT.—Arthur Koppel Co., New [illegible]rk. Catalogue No. 11. Paper; 8 × 10 [illegible] pp. 48; illustrated.

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